000007

Will Co.
L1971100002
Celotex Corp. Dump
ILD 981961634

EPA Region 5 Records Ctr.
237101

CERCLA

SITE TEAM EVALUATION PRIORITIZATION

ANALYTICAL RESULTS

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
Site Assessment Unit

APPENDIX

E

ANALYTICAL RESULTS

DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
U	Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.	Analyte was analyzed for but not detected.
J	Estimated value. Used when estimating a concentration for tentatively identified compounds (TICS) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
C	This flag applies to pesticide results where the identification is confirmed by GC/MS.	Method qualifier indicates analysis by the Manual Spectrophotometric method.
B	Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	The reported value is less than the CRDL but greater than the instrument detection limit (IDL).
D	Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values are flagged with the "D" flag.	Not used.
E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.	The reported value is estimated because of the presence of interference.
A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA).
M	Not used.	Duplicate injection (a QC parameter not met).

N	Not used	Spiked sample (a QC parameter not met).
S	Not used.	The reported value was determined by the Method of Standard Additions (MSA).
W	Not used.	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
*	Not used.	Duplicate analysis (a QC parameter not within control limits).
+	Not used.	Correlation coefficient for MSA (a QC parameter) is less than 0.995.
P	Not used.	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy.
CV	Not used.	Method qualifier indicates analysis by Cold Vapor AA.
AV	Not used.	Method qualifier indicates analysis by Automated Cold Vapor AA.
AS	Not used.	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry.
T	Not used.	Method qualifier indicates Titrimetric analysis.
NR	The analyte was not required to be analyzed.	The analyte was not required to be analyzed.
R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.

IH20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10-31-96

SUBJECT: Review of Region V CLP Data
Received for Review on Sept 10, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for L. Finkelberg
Superfund Technical Support Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Celotex Corp Dump (IL)

CASE NUMBER: 24944 SDG NUMBER: MEAQD8

Number and Type of Samples: 2 (water)

Sample Numbers: MEAQD8, MEAQE1

Laboratory: Sentinel Hrs. for Review: 3.5+0.5

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg

RECEIVED
NOV 06 1996
IEPA/DLPC

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

SITE: CELOTEX CORP. DUMP **CASE: 24944**
LABORATORY: SENTINEL **SDG: MEAQD8**

The laboratory's portion of case 24944 contains two (2) low level water samples assayed for total metals and cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: All sample report forms and the raw data sheets are originals. Sample tags, Airbills, Chain-of-Custody/Traffic Reports and DC-1 Forms are original and present with the case. All forms are present and in the order indicated on the Form DC-2 [inventory sheet].

ICP ANALYSIS: The CCB contained Ca (400.2µg/L), Mg (82.2µg/L) and Fe (29.9µg/L). The Ca and Mg results on samples MEAQE1 are estimated (J) due to contamination and the Fe results on samples E1 and D8 are estimated (J) due to contamination.

The CCB contained Pb (2.8µg/L). The Pb results on sample MEAQD8 are estimated (J) due to contamination.

The CCB contained Na (303.5µg/L) and K (85.782µg/L). The Na and K results on sample E1 are estimated (J) due to contamination.

The laboratory duplicate audit for Cu (200.0% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water samples; therefore, the Cu data are not qualified on this basis. The CCB contained Cu (8.1µg/L). The Cu data for samples D8 and E1 are estimated (J) due to contamination.

The laboratory duplicate audits for As (200.0% RPD) and Cd (200.0% RPD) were not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water samples. Therefore, the data for As and Cd are acceptable.

The laboratory duplicate audit for Zn (22.9% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water samples. Therefore, the Zn data is not qualified on this basis. The Prep. Blank contained Zn (2.313µg/L). Therefore, the Zn results for samples D8 and E1 are estimated (J) due to contamination.

CN ANALYSIS: The laboratory duplicate audit for CN (39.2% RPD) was not flagged by the laboratory because the duplicate difference

Reviewed by: W. Ira Wilson
W. Ira Wilson
Lockheed ESAT

Date: October 25, 1996

NARRATIVE

SITE: CELOTEX CORP. DUMP
LABORATORY: SENTINEL

CASE: 24944
SDG: MEAQD8

did not exceed the technical criterion (+/-CRDL) for water samples. Therefore, CN data are not qualified on this basis. The Prep. Blank for CN contained (2.352µg/L). Sample results for D8 and E1 are estimated (J) due to contamination.

HG ANALYSIS: All Hg results are acceptable.

Reviewed by: W Ira Wilson W. Ira Wilson
Lockheed ESAT

Date: October 23, 1996

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 24944
DATA SET: MEAQ D8
LAB QC #
DATE: 10-23-96

SITE: ~~SENTINEL~~ Celotex Corp
LAB: SENTINEL
REVIEWED BY: [signature]

MATRIX: Water
CONC:

WATER SAMPLE SPK:
WATER SAMPLE DUP:
SOIL SAMPLE SPK:
SOIL SAMPLE DUP:

FORM #		FORM 2	FORM 2	FORM 1	FORM 5	FORM 5	FORM 4	FORM 3	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM																				
ANTIMONY																				
ARSENIC														200.0						
BARIUM																				
BERYLLIUM																				
CADMIUM														200.0						
CALCIUM			~~400.2~~	400.2																
CHROMIUM																				
COBALT																				
COPPER			[signature] 10/23											200.0						
IRON			~~29.9~~	29.9																
LEAD				2.8																
MAGNESIUM			~~82.2~~	82.8																
MANGANESE																				
MERCURY																				
NICKEL																				
POTASSIUM				85.9																
SELENIUM																				
SILVER																				
SODIUM				303.5																
THALLIUM																				
TIN																				
VANADIUM																				
ZINC					2.313									22.9						
CYANIDE					2.352												39.2			

DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

U	Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
J	Indicates the associated value is an estimated quantity.
R	Indicates the data are unusable. (Note: The analyte may or may not be present.)
UJ	Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
M	Indicates duplicate injection precision is not met.
N	Indictaes the spike sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
W	Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
*	Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

Region

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MEAQD8	03450S
MEAQD8D	03450S2
MEAQD8S	03450DS
MEAQE1	03451S

RECEIVED
SEP 10 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: A temperature indicator was not included in the cooler.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Beverly A. Kilgore

Date: 9/10/96 Title: QA Officer

1

INORGANIC ANALYSIS DATA SHEET

MEAQD8

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

Matrix (soil/water): WATER Lab Sample ID: 03450S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.4	U		P
7440-36-0	Antimony	2.9	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	35.4	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	93700			P
7440-47-3	Chromium	1.3	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.5	B		P
7439-89-6	Iron	63.0	B		P
7439-92-1	Lead	2.2	B		P
7439-95-4	Magnesium	38100			P
7439-96-5	Manganese	1.7	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.8	U		P
7440-09-7	Potassium	540	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	4.3	U		P
7440-23-5	Sodium	37900			P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	1.2	U		P
7440-66-6	Zinc	4.6	B		P
	Cyanide	1.2	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MEAQE1

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

Matrix (soil/water): WATER Lab Sample ID: 03451S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.4	U		P
7440-36-0	Antimony	2.9	U		P
7440-38-2	Arsenic	1.8	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	455	B		P
7440-47-3	Chromium	1.3	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	30.2	B		P
7439-92-1	Lead	1.4	U	✓	P
7439-95-4	Magnesium	61.4	B		P
7439-96-5	Manganese	0.50	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.8	U		P
7440-09-7	Potassium	69.8	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	4.3	U		P
7440-23-5	Sodium	306	B		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	1.2	U		P
7440-66-6	Zinc	4.4	B		P
	Cyanide	2.1	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BLANKS

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-44.3	B	-41.0	B	-52.4	B	-26.5	B	-35.865	B	P
Antimony	3.4	B	2.9	U	2.9	U	2.9	U	2.900	U	P
Arsenic	2.5	B	2.4	B	1.8	U	2.4	B	1.800	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Beryllium	0.1	B	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	0.2	U	0.2	U	0.3	B	0.2	U	0.249	B	P
Calcium	365.9	B	368.1	B	379.7	B	400.2	B	390.904	B	P
Chromium	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Cobalt	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Copper	2.2	U	2.2	U	8.1	B	2.2	U	2.200	U	P
Iron	14.2	U	19.7	B	16.1	B	29.9	B	27.921	B	P
Lead	1.4	U	1.4	U	2.8	B	2.0	B	1.640	B	P
Magnesium	41.5	B	51.1	B	45.7	B	82.2	B	49.697	B	P
Manganese	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Mercury	0.1	U	0.1	U	0.1	U			0.100	U	CV
Nickel	3.8	U	3.8	U	3.8	U	3.8	U	3.800	U	P
Potassium	66.4	U	66.4	U	66.4	U	66.4	U	85.782	B	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Silver	4.3	U	4.3	U	4.3	U	4.3	U	4.300	U	P
Sodium	202.1	B	158.8	B	303.5	B	191.3	B	228.285	B	P
Thallium	2.8	B	2.6	U	2.6	U	2.6	U	2.600	U	P
Vanadium	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Zinc	0.8	B	0.7	U	7.3	B	0.7	U	2.313	B	P
Cyanide	0.6	U	0.6	U	0.6	U			2.352	B	CA

BLANKS

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			1.4	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAQD8S

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2000.4180		23.4000	U	2000.00	100.0		P
Antimony	75-125	533.7110		2.9000	U	500.00	106.7		P
Arsenic	75-125	45.5430		1.8000	U	40.00	113.9		P
Barium	75-125	2098.7140		35.3850	B	2000.00	103.2		P
Beryllium	75-125	51.6300		0.1000	U	50.00	103.3		P
Cadmium	75-125	52.5510		0.2000	U	50.00	105.1		P
Calcium									NR
Chromium	75-125	198.0640		1.3000	U	200.00	99.0		P
Cobalt	75-125	528.2950		1.2000	U	500.00	105.7		P
Copper	75-125	267.9120		2.4620	B	250.00	106.2		P
Iron	75-125	1026.9450		63.0050	B	1000.00	96.4		P
Lead	75-125	23.2580		2.1900	B	20.00	105.3		P
Magnesium									NR
Manganese	75-125	523.9340		1.6530	B	500.00	104.5		P
Mercury	75-125	0.9324		0.1000	U	1.00	93.2		CV
Nickel	75-125	524.8550		3.8000	U	500.00	105.0		P
Potassium									NR
Selenium	75-125	10.6790		2.0000	U	10.00	106.8		P
Silver	75-125	49.1310		4.3000	U	50.00	98.3		P
Sodium									NR
Thallium	75-125	49.4000		2.6000	U	50.00	98.8		P
Vanadium	75-125	516.1130		1.2000	U	500.00	103.2		P
Zinc	75-125	534.1780		4.5590	B	500.00	105.9		P
Cyanide	75-125	99.0761		1.1763	B	100.00	97.9		CA

Comments:

EPA SAMPLE NO.

DUPLICATES

MEAQD8D

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		23.4000	U	23.4000	U			P
Antimony		2.9000	U	2.9000	U			P
Arsenic		1.8000	U	1.9650	B	200.0		P
Barium		35.3850	B	35.8380	B	1.3		P
Beryllium		0.1000	U	0.1000	U			P
Cadmium		0.2000	U	0.2730	B	200.0		P
Calcium		93739.8900		95061.7940		1.4		P
Chromium		1.3000	U	1.3000	U			P
Cobalt		1.2000	U	1.2000	U			P
Copper		2.4620	B	2.2000	U	200.0		P
Iron		63.0050	B	63.3840	B	0.6		P
Lead		2.1900	B	2.4780	B	12.3		P
Magnesium		38093.8710		38589.0130		1.3		P
Manganese		1.6530	B	1.6970	B	2.6		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		3.8000	U	3.8000	U			P
Potassium		540.1870	B	544.0850	B	0.7		P
Selenium		2.0000	U	2.0000	U			P
Silver		4.3000	U	4.3000	U			P
Sodium		37907.3080		38371.6580		1.2		P
Thallium		2.6000	U	2.6000	U			P
Vanadium		1.2000	U	1.2000	U			P
Zinc		4.5590	B	43.6230	B	22.9		P
Cyanide		1.1763	B	41.7495	B	39.2		CA

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

ICP ID Number: P3 Date: 07/12/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	23.4	P
Antimony	206.80		60	2.9	P
Arsenic	189.00		10	1.8	P
Barium	493.40		200	1.0	P
Beryllium	313.00		5	0.1	P
Cadmium	226.50		5	0.2	P
Calcium	317.90		5000	14.5	P
Chromium	267.70		10	1.3	P
Cobalt	228.60		50	1.2	P
Copper	324.70		25	2.2	P
Iron	271.40		100	14.2	P
Lead	220.30		3	1.4	P
Magnesium	279.00		5000	14.0	P
Manganese	257.60		15	0.5	P
Mercury			0.2		NR
Nickel	231.60		40	3.8	P
Potassium	766.40		5000	66.4	P
Selenium	196.00		5	2.0	P
Silver	328.00		10	4.3	P
Sodium	330.20		5000	129.6	P
Thallium	190.80		10	2.6	P
Vanadium	292.40		50	1.2	P
Zinc	206.20		20	0.7	P
Cyanide			10		NR

Comments:
P3: THERMO JARRELL ASH

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

ICP ID Number: Date: 07/10/96

Flame AA ID Number: C2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
C2: BACHARACH

17

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQD8

ICP ID Number: Date: 07/10/96

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	0.6	CA

Comments:
C1: LACHAT

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

SAS No. (if applicable):
Case No.: 24944

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: IEPA
4. Date Shipped: 8/22/96
Carrier: FED EX
6. Date Received -- Received by: 08/23/96 - Susan Pearsall
Sampler (Name): MARK DERSMORE
Airbill Number: 758 5696823
Laboratory Contract Number: 68-D6-0001
Unit Price: $65.00
Sampler Signature: Mark Dersmore
5. Ship To: SENTINEL, INC. 2800 BOB WALLACE AVE, SUITE L3 HUNTSVILLE, AL 35805 ATTN: MELVIN KILGORE
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	NO_2/NO_3 (Low only)	Fluoride (Low only)	pH (High only)	Conduct. (High only)	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEAQE1	2	L	G	2		X						5-163461	G105	8/22/96/12:00	EBHX1	MD			
MEAQE1	2	L	G	3			X					5-163462	G105	8/22/96/12:00	EBHX1	MD			
MEAQD8	2	L	G	2		X						5-163480-2	G103	8/22/96/11:15	EBHW8	MD			
MEAQD8	2	L	G	3			X					5-163483-5	G103	8/22/96/11:15	EBHW8	MD			

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC: MEAQD8
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48486-7

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Dersmore	8-22-96 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Susan Pearsall	08/23/96 09:18	Y	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yel[illegible] Lab Copy for Return to

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIO[illegible]

A21-0128 REV. 3/93

362664

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IL

Case No: 24944 Site Name Location: Celotex Corp Dump

Contractor or EPA Lab: Sentinel Data User: IEPA

No. of Samples: 2 Date Sampled or Data Received: 9-10-96

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 2 No. of samples received: 2

Received by: Lynette Burnett Date: 9-10-96

Received by LSSS: Lynette Burnett Date: 9-10-96

Review started: Oct 21, '96 Reviewer Signature: [illegible]

Total time spent on review: ~~3.5~~ 4.5 +0.5 by 10-29-96 Date review completed: Oct 23, 1996

Copied by: Lynette Burnett Date: 11-4-96

Mailed to user by: Lynette Burnett Date: 11-4-96

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Data: _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10-23-96

SUBJECT: Review of Region V CLP Data
Received for Review on Sept 10, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section L. Finkelberg

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Celotex Corp Dump (IL)

CASE NUMBER: 24944 SDG NUMBER: MEAQC9

Number and Type of Samples: 6 (Soil)

Sample Numbers: MEAQC9, MEAQD2-6

Laboratory: Sentinel Hrs. for Review: 6+1

Following are our findings:

The CN result on MEAQD6 is unusable (R) due to extremely low matrix spike recovery (-10.3%). All other data are acceptable with the qualifications described in the attached narrative.

L. Finkelberg

RECEIVED
NOV 01 1996
IEPA/DLPC

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

SITE: CELOTEX CORP. DUMP **CASE: 24994**
LABORATORY: SENTINEL **SDG: MEAQC9**

The laboratory's portion of case 24994 contains six (6) low level soil samples assayed for total metals and cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: All sample report forms and the raw data sheets are originals. Sample tags, Airbills, Chain-of-Custody/Traffic Reports and DC-1 Forms are original and present with the case. All forms are present and in the order indicated on the Form DC-2 [inventory sheet].

ICP ANALYSIS: The matrix spike recovery for Sb (71.5% R) was out of control. Initial Cal. Blank contained Sb (3.4µg/L). The Sb results on samples MEAQC9 and D5 are estimated (J) due to low bias and contamination and samples D2 - D4 and D6 are estimated (UJ) due to possible elevation of the detection limits.

The Initial Cal. Blank contained As (2.5µg/L). The As results on samples D3 - D6 are estimated (J) due to contamination.

The Initial Cal. Blank contained Be (0.1µg/L). The Be results on all samples are estimated (J) due to contamination. L.F.

The Prep. Blank contained Na (88.078mg/kg). All Na results are estimated (J) due to contamination.

The CCB contained Cd (0.3µg/L). The Cd results for samples D3, D4 and D6 are estimated (J) due to contamination. The Cd results for the remaining samples are acceptable.

The Matrix Spike recovery for Zn (127.8% R) was out of control. All Zn results are estimated (J) due to high bias.

The Matrix Spike recoveries for Pb (293.3% R) was not flagged by the laboratory because the sample concentration exceeded the spike concentration by a factor of four (4). Therefore, all Pb data are acceptable.

The serial dilutions for Ca (11.2% D) and Cu (12.1% D) were out of control. Therefore, all Ca and Cu data are estimated (J) due to interference.

CN ANALYSIS: The laboratory duplicate audit for CN (17.8% RPD)

Reviewed by: W. Ira Wilson
Lockheed ESAT

Date: October 11, 1996

NARRATIVE

SITE: CELOTEX CORP. DUMP **CASE: 24994**
LABORATORY: SENTINEL **SDG: MEAQC9**

was flagged by the laboratory, however, the RPD value did not exceed the control limit of (35%) for soil samples. Therefore, CN data are not qualified on this basis. The matrix spike recovery for CN (-10.3% R) was out of control. The Prep. Blank for CN contained (0.155mg/kg). Sample results for C9 and D2 - D4 are estimated (J) due to contamination and low bias. Sample result for D5 is estimated (J) due to low bias and sample result for D6 are unusable (R).

HG ANALYSIS: All Hg results are acceptable.

Reviewed by: W. Ira Wilson
Lockheed ESAT

Date: October 11, 1996

DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J Indicates the associated value is an estimated quantity.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

M Indicates duplicate injection precision is not met.

N Indictaes the spike sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

***** Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 24944
DATA SET: MEAQC9
LAB QC #
DATE: 10-11-96

SITE: Celotex Corp
LAB: Sentinel
REVIEWED BY: William Wilson

MATRIX: Soil
CONC: Low

WATER SAMPLE SPK:
WATER SAMPLE DUP:
SOIL SAMPLE SPK: ✓
SOIL SAMPLE DUP: ✓

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS SR	SOIL SPIKE SR	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP SR	AQ SPIKE SR	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM																				
ANTIMONY		3.4						76.5												
ARSENIC		2.5																		
BARIUM																				
BERYLLIUM		0.1																		
CADMIUM				0.3																
CALCIUM													11.2							
CHROMIUM																				
COBALT																				
COPPER													12.1							
IRON																				
LEAD								288.3												
MAGNESIUM																				
MANGANESE																				
MERCURY																				
NICKEL																				
POTASSIUM																				
SELENIUM																				
SILVER																				
SODIUM				303.5																
THALLIUM																				
TIN																				
VANADIUM																				
ZINC								127.8												
CYANIDE								-10.3	12.8											

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MEAQC9	03457S
MEAQD2	03452S
MEAQD3	03453S
MEAQD4	03454S
MEAQD5	03455S
MEAQD5D	03455S2
MEAQD5S	03455DS
MEAQD6	03456S

RECEIVED
SEP 10 1996
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: A temperature indicator was not included in the cooler. Concentrations are estimated for Calcium + copper due to possible sample matrix interferents.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Beverly A Kilgore

Date: 9/10/96 Title: QA Officer

INORGANIC ANALYSIS DATA SHEET

MEAQC9

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Lab Sample ID: 03457S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 85.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6040			P
7440-36-0	Antimony	0.78	B	N	P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	64.0			P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.79	B		P
7440-70-2	Calcium	15000		E	P
7440-47-3	Chromium	11.0			P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	12.1		E	P
7439-89-6	Iron	14400			P
7439-92-1	Lead	38.6			P
7439-95-4	Magnesium	7780			P
7439-96-5	Manganese	682			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	12.6			P
7440-09-7	Potassium	1280			P
7782-49-2	Selenium	1.0	B		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	178	B		P
7440-28-0	Thallium	0.61	U		P
7440-62-2	Vanadium	14.4			P
7440-66-6	Zinc	82.0		N	P
	Cyanide	0.28	B	N*	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

2

INORGANIC ANALYSIS DATA SHEET

MEAQD2

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Lab Sample ID: 03452S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 86.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5320			P
7440-36-0	Antimony	0.67	U	N	P
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	64.6			P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.40	B		P
7440-70-2	Calcium	44400		E	P
7440-47-3	Chromium	9.7			P
7440-48-4	Cobalt	5.9	B		P
7440-50-8	Copper	11.9		E	P
7439-89-6	Iron	14400			P
7439-92-1	Lead	6.3			P
7439-95-4	Magnesium	10100			P
7439-96-5	Manganese	620			P
7439-97-6	Mercury	0.10	B		CV
7440-02-0	Nickel	10.7			P
7440-09-7	Potassium	753	B		P
7782-49-2	Selenium	0.62	B		P
7440-22-4	Silver	3.0			P
7440-23-5	Sodium	242	B		P
7440-28-0	Thallium	0.60	U		P
7440-62-2	Vanadium	13.2			P
7440-66-6	Zinc	38.7		N	P
	Cyanide	0.34	B	N*	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MEAQD3

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Lab Sample ID: 03453S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 92.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5320			P
7440-36-0	Antimony	0.61	U	N	P
7440-38-2	Arsenic	1.3	B		P
7440-39-3	Barium	50.4			P
7440-41-7	Beryllium	0.55	B		P
7440-43-9	Cadmium	0.25	B		P
7440-70-2	Calcium	6940		E	P
7440-47-3	Chromium	11.0			P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	15.1		E	P
7439-89-6	Iron	7980			P
7439-92-1	Lead	10.7			P
7439-95-4	Magnesium	2430			P
7439-96-5	Manganese	162			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	8.1	B		P
7440-09-7	Potassium	662	B		P
7782-49-2	Selenium	0.42	U		P
7440-22-4	Silver	1.5	B		P
7440-23-5	Sodium	411	B		P
7440-28-0	Thallium	0.55	U		P
7440-62-2	Vanadium	11.7			P
7440-66-6	Zinc	69.8		N	P
	Cyanide	0.20	B	N*	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MEAQD4

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Lab Sample ID: 03454S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 83.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6130			P
7440-36-0	Antimony	0.68	U	N	P
7440-38-2	Arsenic	2.4			P
7440-39-3	Barium	46.6	B		P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.35	B		P
7440-70-2	Calcium	3090		E	P
7440-47-3	Chromium	14.5			P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	16.4		E	P
7439-89-6	Iron	10500			P
7439-92-1	Lead	10.2			P
7439-95-4	Magnesium	2960			P
7439-96-5	Manganese	285			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	13.1			P
7440-09-7	Potassium	707	B		P
7782-49-2	Selenium	0.58	B		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	315	B		P
7440-28-0	Thallium	0.61	U		P
7440-62-2	Vanadium	16.9			P
7440-66-6	Zinc	64.6		N	P
	Cyanide	0.27	B	N*	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MEAQD5

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Lab Sample ID: 03455S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 75.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6420			P
7440-36-0	Antimony	2.0	B	N	P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	77.3			P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.97	B		P
7440-70-2	Calcium	4930		E	P
7440-47-3	Chromium	22.0			P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	93.9		E	P
7439-89-6	Iron	4440			P
7439-92-1	Lead	79.2			P
7439-95-4	Magnesium	2060			P
7439-96-5	Manganese	118			P
7439-97-6	Mercury	0.30			CV
7440-02-0	Nickel	9.3	B		P
7440-09-7	Potassium	572	B		P
7782-49-2	Selenium	0.55	B		P
7440-22-4	Silver	1.2	B		P
7440-23-5	Sodium	353	B		P
7440-28-0	Thallium	0.69	U		P
7440-62-2	Vanadium	12.4	B		P
7440-66-6	Zinc	336		N	P
	Cyanide	17.9		N*	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

MEAQD6

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Lab Sample ID: 03456S

Level (low/med): LOW Date Received: 08/23/96

% Solids: 90.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5570			P
7440-36-0	Antimony	0.60	U	N	P
7440-38-2	Arsenic	1.1	B		P
7440-39-3	Barium	56.9			P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	0.17	B		P
7440-70-2	Calcium	4360		E	P
7440-47-3	Chromium	12.3			P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	9.3		E	P
7439-89-6	Iron	6700			P
7439-92-1	Lead	6.4			P
7439-95-4	Magnesium	3430			P
7439-96-5	Manganese	75.7			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	8.1	B		P
7440-09-7	Potassium	538	B		P
7782-49-2	Selenium	0.41	U		P
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	315	B		P
7440-28-0	Thallium	0.54	U		P
7440-62-2	Vanadium	15.5			P
7440-66-6	Zinc	59.9		N	P
	Cyanide	0.03	U	N*	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAQD5S

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 75.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	95.3236		1.9765	B	130.54	71.5	N	P
Arsenic	75-125	12.0005		1.8394	B	10.44	97.3		P
Barium	75-125	600.9086		77.2802		522.18	100.3		P
Beryllium	75-125	12.7835		0.2014	B	13.05	96.4		P
Cadmium	75-125	13.5498		0.9661	B	13.05	96.4		P
Calcium									NR
Chromium	75-125	76.0199		22.0488		52.22	103.4		P
Cobalt	75-125	133.9260		5.3776	B	130.54	98.5		P
Copper	75-125	163.3654		93.9015		65.27	106.4		P
Iron									NR
Lead		94.5581		79.2498		5.22	293.3		P
Magnesium									NR
Manganese	75-125	250.1948		118.2009		130.54	101.1		P
Mercury	75-125	0.9595		0.2966		0.63	105.2		CV
Nickel	75-125	136.9729		9.2629	B	130.54	97.8		P
Potassium									NR
Selenium	75-125	3.0344		0.5513	B	2.61	95.1		P
Silver	75-125	13.1093		1.1689	B	13.05	91.5		P
Sodium									NR
Thallium	75-125	11.8919		0.6856	U	13.05	91.1		P
Vanadium	75-125	139.8990		12.3835	B	130.54	97.7		P
Zinc	75-125	503.0313		336.1406		130.54	127.8	N	P
Cyanide	75-125	17.2379		17.9174		6.59	-10.3	N	CA

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAQD5A

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		516.07		7.50	B	120.0	423.8		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc		3821.71		1274.83		2550.0	99.9		P
Cyanide		811.00		271.81		550.0	98.0		CN

Comments:

BLANKS

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-44.3	B	-41.0	B	-52.4	B	-26.5	B	-7.688	B	P
Antimony	3.4	B	2.9	U	2.9	U	2.9	U	0.580	U	P
Arsenic	2.5	B	2.4	B	1.8	U	2.4	B	0.360	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Beryllium	0.1	B	0.1	U	0.1	U	0.1	U	0.020	U	P
Cadmium	0.2	U	0.2	U	0.3	B	0.2	U	0.040	U	P
Calcium	365.9	B	368.1	B	379.7	B	400.2	B	79.455	B	P
Chromium	1.3	U	1.3	U	1.3	U	1.3	U	0.260	U	P
Cobalt	1.2	U	1.2	U	1.2	U	1.2	U	0.240	U	P
Copper	2.2	U	2.2	U	8.1	B	2.2	U	0.632	B	P
Iron	14.2	U	19.7	B	16.1	B	29.9	B	9.198	B	P
Lead	1.4	U	1.4	U	2.8	B	2.0	B	0.503	B	P
Magnesium	41.5	B	51.1	B	45.7	B	82.2	B	9.257	B	P
Manganese	0.5	U	0.5	U	0.5	U	0.5	U	0.100	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	-0.056	B	CV
Nickel	3.8	U	3.8	U	3.8	U	3.8	U	0.760	U	P
Potassium	66.4	U	66.4	U	66.4	U	66.4	U	13.711	B	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Silver	4.3	U	4.3	U	4.3	U	4.3	U	0.860	U	P
Sodium	202.1	B	158.8	B	303.5	B	191.3	B	88.078	B	P
Thallium	2.8	B	2.6	U	2.6	U	2.6	U	0.520	U	P
Vanadium	1.2	U	1.2	U	1.2	U	1.2	U	0.240	U	P
Zinc	0.8	B	0.7	U	7.3	B	0.7	U	1.627	B	P
Cyanide	0.6	U	0.6	U	0.6	U			0.030	U	CA

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BLANKS

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			-53.1	B							P
Antimony			2.9	U							P
Arsenic			1.8	U							P
Barium			1.0	U							P
Beryllium			0.1	U							P
Cadmium			0.2	U							P
Calcium			383.1	B							P
Chromium			1.3	U							P
Cobalt			1.2	U							P
Copper			5.7	B							P
Iron			18.9	B							P
Lead			1.4	U							P
Magnesium			48.6	B							P
Manganese			0.5	U							P
Mercury											NR
Nickel			3.8	U							P
Potassium			66.4	U							P
Selenium			2.0	U							P
Silver			4.3	U							P
Sodium			207.9	B							P
Thallium			2.6	U							P
Vanadium			1.2	U							P
Zinc			4.6	B							P
Cyanide	0.6	U	0.6	U	0.6	U			0.155	B	CA

BLANKS

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	0.7	U	0.7	U	2.2	B	1.9	B			P
Cyanide	0.6	U	0.6	U	0.6	U					CA

BLANKS

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			0.7	U							P
Cyanide											NR

EPA SAMPLE NO.

DUPLICATES

MEAQD5D

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 75.1 % Solids for Duplicate: 76.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6423.0868		6964.5500		8.1		P
Antimony		1.9765	B	1.8577	B	6.2		P
Arsenic		1.8394	B	1.9626	B	6.5		P
Barium	52.7	77.2802		82.5190		6.6		P
Beryllium		0.2014	B	0.2167	B	7.3		P
Cadmium		0.9661	B	0.8663	B	10.9		P
Calcium	1318.4	4934.7637		4748.4246		3.8		P
Chromium		22.0488		23.8477		7.8		P
Cobalt		5.3776	B	5.1116	B	5.1		P
Copper		93.9015		98.8979		5.2		P
Iron		4443.0969		4313.6041		3.0		P
Lead		79.2498		83.6957		5.5		P
Magnesium	1318.4	2055.0856		1888.7619		8.4		P
Manganese		118.2009		110.6593		6.6		P
Mercury	0.1	0.2966		0.3269		9.7		CV
Nickel		9.2629	B	9.5324	B	2.9		P
Potassium		572.2727	B	588.4058	B	2.8		P
Selenium		0.5513	B	0.6363	B	14.3		P
Silver		1.1689	B	1.4715	B	22.9		P
Sodium		352.6646	B	337.2249	B	4.5		P
Thallium		0.6856	U	0.6788	U			P
Vanadium		12.3835	B	13.0393	B	5.2		P
Zinc		336.1406		362.6334		7.6		P
Cyanide	0.7	17.9174		21.4279		17.8	*	CA

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LABORATORY CONTROL SAMPLE

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Solid LCS Source: EPA-LV

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				325.0	420.1		225.0	424.0	129.3
Antimony				211.0	293.3		127.0	294.0	139.0
Arsenic				917.0	1055.6		635.0	1199.0	115.1
Barium				4.8	6.4	B	0.0	40.0	133.3
Beryllium				19.4	20.2		16.5	22.3	104.1
Cadmium				45.4	45.4		35.7	55.1	100.0
Calcium				196200.0	194075.6		166800.0	225600.0	98.9
Chromium				99.6	106.4		79.2	120.0	106.8
Cobalt				144.0	157.9		125.0	162.0	109.7
Copper				6910.0	7551.0		6006.0	7820.0	109.3
Iron				22430.0	23884.8		17770.0	27080.0	106.5
Lead				236.0	233.9		188.0	285.0	99.1
Magnesium				118100.0	120983.9		100400.0	129900.0	102.4
Manganese				208.0	225.1		177.0	239.0	108.2
Mercury				12.7	12.7		8.5	17.0	100.0
Nickel				60.9	64.8		49.2	72.6	106.4
Potassium				50.0	91.7	B	0.0	1000.0	183.4
Selenium				39.2	45.7		19.1	59.4	116.6
Silver				22.2	22.6		15.5	29.0	101.8
Sodium				50.0	182.6	B	0.0	1000.0	365.2
Thallium				39.0	39.1		24.6	53.5	100.3
Vanadium				65.8	73.6		51.7	79.9	111.9
Zinc				187.0	181.1		138.0	236.0	96.8
Cyanide				5.6	6.6		4.3	6.9	117.9

LABORATORY CONTROL SAMPLE

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Solid LCS Source: EPA-LV

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide				5.6	6.5		4.3	6.9	116.1

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EPA SAMPLE NO.

ICP SERIAL DILUTIONS

MEAQD5L

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	24359.88		24293.61		0.3		P
Antimony	7.50	B	14.50	U	100.0		P
Arsenic	6.98	B	22.03	B	215.6		P
Barium	293.09		300.84	B	2.6		P
Beryllium	0.76	B	1.12	B	47.4		P
Cadmium	3.66	B	4.71	B	28.7		P
Calcium	18715.34		20817.64	B	11.2	E	P
Chromium	83.62		87.12		4.2		P
Cobalt	20.40	B	24.37	B	19.5		P
Copper	356.13		399.39		12.1	E	P
Iron	16850.67		16595.34		1.5		P
Lead	300.56		330.41		9.9		P
Magnesium	7794.02		8507.16	B	9.1		P
Manganese	448.28		455.36		1.6		P
Mercury							NR
Nickel	35.13	B	45.94	B	30.8		P
Potassium	2170.37	B	2638.26	B	21.6		P
Selenium	2.09	B	10.00	U	100.0		P
Silver	4.43	B	21.50	U	100.0		P
Sodium	1337.50	B	2574.86	B	92.5		P
Thallium	2.60	U	13.00	U			P
Vanadium	46.96	B	51.19	B	9.0		P
Zinc	1274.83		1340.10		5.1		P

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

ICP ID Number: P3 Date: 07/12/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	23.4	P
Antimony	206.80		60	2.9	P
Arsenic	189.00		10	1.8	P
Barium	493.40		200	1.0	P
Beryllium	313.00		5	0.1	P
Cadmium	226.50		5	0.2	P
Calcium	317.90		5000	14.5	P
Chromium	267.70		10	1.3	P
Cobalt	228.60		50	1.2	P
Copper	324.70		25	2.2	P
Iron	271.40		100	14.2	P
Lead	220.30		3	1.4	P
Magnesium	279.00		5000	14.0	P
Manganese	257.60		15	0.5	P
Mercury			0.2		NR
Nickel	231.60		40	3.8	P
Potassium	766.40		5000	66.4	P
Selenium	196.00		5	2.0	P
Silver	328.00		10	4.3	P
Sodium	330.20		5000	129.6	P
Thallium	190.80		10	2.6	P
Vanadium	292.40		50	1.2	P
Zinc	206.20		20	0.7	P
Cyanide			10		NR

Comments:
P3: THERMO JARRELL ASH

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

ICP ID Number: Date: 07/10/96

Flame AA ID Number: C2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
C2: BACHARACH

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

ICP ID Number: Date: 07/10/96

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	0.6	CA

Comments:
C1: LACHAT

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

ICP ID Number: P3 Date: 07/12/96

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	600000.0	P
Antimony	15.00	50000.0	P
Arsenic	15.00	25000.0	P
Barium	15.00	25000.0	P
Beryllium	15.00	10000.0	P
Cadmium	15.00	25000.0	P
Calcium	15.00	600000.0	P
Chromium	15.00	50000.0	P
Cobalt	15.00	50000.0	P
Copper	15.00	50000.0	P
Iron	15.00	500000.0	P
Lead	15.00	50000.0	P
Magnesium	15.00	600000.0	P
Manganese	15.00	25000.0	P
Mercury			NR
Nickel	15.00	25000.0	P
Potassium	15.00	60000.0	P
Selenium	15.00	25000.0	P
Silver	15.00	10000.0	P
Sodium	15.00	500000.0	P
Thallium	15.00	50000.0	P
Vanadium	15.00	100000.0	P
Zinc	15.00	50000.0	P

Comments:
P3: THERMO JARRELL ASH

PREPARATION LOG

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/23/96	1.04	200
MEAQC9	08/23/96	1.00	200
MEAQD2	08/23/96	1.00	200
MEAQD3	08/23/96	1.03	200
MEAQD4	08/23/96	1.03	200
MEAQD5	08/23/96	1.01	200
MEAQD5A	08/23/96	1.00	200
MEAQD5D	08/23/96	1.02	200
MEAQD5L	08/23/96	1.00	200
MEAQD5S	08/23/96	1.02	200
MEAQD6	08/23/96	1.07	200
PBS	08/23/96	1.00	200

PREPARATION LOG

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/28/96	0.20	100
MEAQC9	08/28/96	0.20	100
MEAQD2	08/28/96	0.21	100
MEAQD3	08/28/96	0.21	100
MEAQD4	08/28/96	0.20	100
MEAQD5	08/28/96	0.21	100
MEAQD5D	08/28/96	0.20	100
MEAQD5S	08/28/96	0.21	100
MEAQD6	08/28/96	0.21	100
PBS	08/28/96	0.20	100

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PREPARATION LOG

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/26/96	1.00	50
MEAQD2	08/26/96	1.00	50
MEAQD3	08/26/96	1.01	50
MEAQD4	08/26/96	1.01	50
MEAQD5	08/26/96	1.01	50
MEAQD5A	08/26/96	1.01	50
MEAQD5D	08/26/96	1.01	50
MEAQD5S	08/26/96	1.01	50
PBS	08/26/96	1.00	50
S100	08/26/96		50
S101	08/26/96		50

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PREPARATION LOG

Lab Name: SENTINEL, INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 24944 SAS No.: SDG No.: MEAQC9

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/26/96	1.00	50
MEAQC9	08/26/96	1.01	50
MEAQD6	08/26/96	1.01	50
PBS	08/26/96	1.00	50

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EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

SAS No. (if applicable):
Case No.: 24944

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

2. Region No.: 5
Sampling Co.: IEPA
Sampler (Name): MARK DENSMORE
Sampler Signature:

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, X SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD

4. Date Shipped: 8-22-96
Carrier: FED EX
Airbill Number: 758 569 6823

5. Ship To: SENTINEL, INC
2800 BOB WALLACE AVE, SUITE L3
HUNTSVILLE, AL 35805
ATTN: MELVIN KILGORE

6. Date Received – Received by: 08/23/96 - Susan Pearsall
Laboratory Contract Number: 68-D6-0001
Unit Price: $65.00
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEAQD5	5	L	G	6		X	X					5-163428	X107	8/22/96/7:50	EBHW5	MD			
MEAQD6	5	L	G	6		X	X					5-163432	X108	8/22/96/8:15	EBHW6	MD			
MEAQD4	5	L	G	6		X	X					5-163424	X106	8/22/96/9:45	EBHT5	MD			
MEAQD3	5	L	G	6		X	X					5-163420	X105	8/22/96/9:45	EBHT4	MD			
MEAQD2	5	L	G	6		X	X					5-163416	X104	8/22/96/10:35	EBHT3	MD			
MEAQC9	5	L	G	6		X	X					5-163404	X101	8/22/96/14:15	EBHT6	MD			

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: MEAQD5
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48478-9

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Densmore	8-22-96 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		Susan Pearsall	08/23/96 09:18	Y	

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITION.

A21-012-6 REV. 3/93

362665

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IL

Case No: 24944 Site Name Location: Celotex Corp Dump

Contractor or EPA Lab: Sentinel Data User: IEPA

No. of Samples: 6 Date Sampled or Data Received: 9-10-96

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 6 No. of samples received: 6

Received by: Lynette Burnett Date: 9-10-96

Received by LSSS: Lynette Burnett Date: 9-10-96

Review started: 10-9-96 Reviewer Signature: [illegible]

Total time spent on review: 6+1/2 Date review completed: 10-11-96

Copied by: Lynette Burnett Date: 10-29-96

Mailed to user by: Lynette Burnett Date: 10-29-96

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

H_2O + Soil

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on Sept 29, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section
for Steve Ostrodka
Richard L Bynum
11/27/96

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Celotex Corp Dump (IL)

CASE NUMBER: 24944 SDG NUMBER: EBHT3

Number and Type of Samples: 10 (Soil/water)

Sample Numbers: EBHT3-7 EBHW5-6, 8 EBHX1-2

Laboratory: Ceimic Hrs. for Review: 16 + 1.5

Following are our findings:
The data are usable and acceptable with the qualifications described in the attached narrative.
Richard L Bynum
11/27/96

RECEIVED
DEC 04 1996

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

Laboratory: CEIMC CORP | CASE #: 24944
Site: Celotex Corp Dump (IL) | SDG: EBHT3

This case consists seven (7) soil samples numbered EBHT3 through EBHT7 and EBHW5 to EBHW6; and three (3) water samples numbered EBHW8, EBHX1 and EBHX2. These samples were all collected on August 22, 1996 and were received by the laboratory on August 23, 1996. All samples were analyzed for all three fractions except EBHX2 which is a trip blank and EBHT7 which were only analyzed for VOAs. All samples were to be analyzed according to CLP SOW OLM03.1.

Sample EBHW5 was used as the soil low level MS/MSD for all fractions, except in the semivolatile. Sample EBHW8 was used for the low level water MS/MSD for all fractions. Sample EBHW5 was used as the medium level soil MS/MSD in the semivolatile fraction and EBHW6 was used for the low level MS/MSD.

The VOA analyses were performed within the technical holding time of 14 days after sample collection, for soil samples; therefore, the results are acceptable. All semivolatile samples were extracted within the 14-day holding time for soil samples, except for EBHW5MS, EBHW5MSD, EBHT4, EBHT6, EBHW5, EBHW5MS, EBHW5MSD which were extracted twenty-two (22) days after collection. The pesticide fraction was extracted within the technical holding time of 14 days for soils. All semi-volatile and pesticide sample~~s~~ extracts were analyzed within forty days after extraction; therefore, the results are acceptable.

Sample EBHX2 is a trip blank and was only analyzed for VOAs.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed Thomas Sedlacek Lockheed-Martin/ESAT
DATE: October 31, 1996

Laboratory: CEIMC CORP
Site: Celotex Corp Dump (IL)

CASE #: 24944
SDG: EBHT3

1. HOLDING TIME

This case consists seven (7) soil samples numbered EBHT3 through EBHT7 and EBHW5 to EBHW6; and three (3) water samples numbered EBHW8, EBHX1 and EBHX2. These samples were all collected on August 22, 1996 and were received by the laboratory on August 23, 1996. All samples were analyzed for all three fractions with the exception of EBHX2 which is identified as a trip blank and EBHT7 both of which were only analyzed for VOAs. All samples were to be analyzed according to CLP SOW OLM03.1.

The VOA analyses were performed within the technical holding time of 14 days after samples collection; therefore, the results are acceptable. All pesticide and semivolatile sample extractions were preformed within seven (7) days for water and fourteen (14) days for soil samples, with the exception of SVOA samples EBHW5MS, EBHW5MSD, EBHT4, EBHT6, EBHW5, EBHW5MS, EBHW5MSD that were extracted twenty-two (22) days after collection. All analyses were performed within in forty (40) days after extraction; therefore the results are acceptable with the qualification as estimated (J) for detects and (UJ) for non-detects in the SVOA samples EBHW5MS, EBHW5MSD, EBHT4, EBHT6, EBHW5, EBHW5MS, EBHW5MSD.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complies with the mass list and ion abundance criteria for BFB, and all samples were analyzed within twelve (12) hour periods for instrument performance checks.

GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within twelve (12) hour periods of for instrument checks.

GC Resolution Check Mixtures met 60% resolution criteria. Endrin and DDT degradation checks using PEM Mix on the DB-608 and RTX-1701 columns were <20%; therefore, the results are acceptable.

The Florisil Cartridge Check and GPC calibration check met the QC criteria; therefore, the results are acceptable.

3. CALIBRATIONS

Initial and continuing calibrations of Volatile Semivolatile and PEST/PCB standards were

evaluated for target compound lists and outliers are reported on the forms included as part of this narrative. The reviewer needed to correct FORM IV VOA for the ICAL on 8/26/96 for a heated purge.

4. BLANKS

VOA VBLKCX, VBLKGA and VBLKGL are the low level water volatile method blanks. VBLKGG, VBLKCB, VBLKGJ, and VBLKGK, are the low level soil volatile method blanks. The table summarizes the target list compounds found in the method blanks.

BLANK	Methylene Chloride	Acetone	2-Butanone	TICs
VBLKCX	9			0
VBLKGA	7	14		0
VBLKGL	7	12		0
VBLKGK	6	7	3	0
VBLKGJ	17	7		0
VBLKCB	4	8		0
VBLKGG	6	9	3	0

Acetone is a common laboratory contaminant and it's presence in any of the samples associated with VBLKGA, VBLKGL, VBLKGK, VBLKGJ, VBLKCB and VBLKGG is flagged as undetected (U), when the sample result is less than ten (10) times the blank result. Methylene Chloride is a common laboratory contaminant and it's presence in any of the samples associated with VBLKCX, VBLKGA, VBLKGL, VBLKGK, VBLKGJ, VBLKCB and VBLKGG is flagged as undetected (U), when the sample result is less than ten (10) times the blank result. 2-Butanone is a common laboratory contaminant and its presence in any of the samples associated with VBLKGK and VBLKGG is flagged as undetected (U), when the sample result is less than ten (10) times the blank result.
The Volatile method blank summary (FORM IV VOA) lists the samples associated with each method blank.

SVOA SBLKJV was the low level water semivolatile method blank. SBLKIM, and SBLKAJ are the low level soil semivolatile method blanks. SBLKAI is the medium level soil

method blank. SBLKAI contained Di-n-Octyl Phthalate at 8200 ug/Kg and 11 Tentatively Identified Compounds (TICs). Di-n-Octyl Phthalate is a common laboratory contaminant and it's presence in any of the samples associated with SBLKAI is flagged as undetected (U), when the sample result is less than ten (10) times the blank result. The presence of any of the TICS in the samples associated with SBLKAI is flagged as undetected (U), when the sample result is less than five (5) times the blank result. Blank SBLKIM contained no TCLs and 3 TICs. The presence of any of the TICS in the samples associated with SBLKIM is flagged as undetected (U), when the sample result is less than five (5) times the blank result. Blank SBLKAJ contained no TCLs and five TICs. The presence of any of the TICS in the samples associated with SBLKAJ is flagged as undetected (U), when the sample result is less than five (5) times the blank result. Blank SBLKJV contained no target compounds or TICs; therefore, the results are acceptable.
The semivolatile method blank summary (FORM IV SVOA) lists the samples associated with each method blank.

PEST/PCB PBLK01 is the low level pesticide water method blank. PBLK02 is the low level pesticide soil method blank. PBLK01 and PBLK02 contained no target compounds; therefore, the results are acceptable.
The pesticide method blank summary (FORM IV PEST) lists the samples associated with each method blank.
There are ten (10) Pesticide instrument method blanks, none of which contained any target compounds. No samples were associated with the instrument blanks.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

VOA: The surrogates were within acceptable limits for the water samples; therefore the results are acceptable. The recovery of Bromofluorobenzene was below the acceptable limits in the soil sample EBHW5; therefore positive results are estimated "J"; non-detects qualified "UJ".

SVOA: The semivolatile surrogates were within the QC limits for all samples; therefore, the results are acceptable. The lab improperly used the "D" flag on FORM II SV-1 for soils

Pesticide\PCB: The pesticide surrogates were within the QC limits for all samples with the exceptions as noted below; therefore, the results are acceptable. The lab improperly used the "D" flag for sample EBHW5DL. The recovery of Tetrachloro-m-xylene on the DB608 column was below acceptable limits for samples EBHT3, and EBTH5. The recovery of Tetrachloro-m-xylene on the DB1701 column was below acceptable limits for samples EBHT3. The recovery of Decachlorobiphenyl on the DB608 column was below acceptable limits for samples EBHT3,

EBHW5 and EBHT5MS. The recovery of Decachlorobiphenyl on the DB1701 column was below acceptable limits for samples EBHT3, EBHT5 and EBHT5MS. Therefore, for the above noted samples, positive results are estimated "J"; non-detects are estimated "UJ".

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample EBHW5 was used as the soil low level MS/MSD for all fractions, except in the semivolatile. Sample EBHW8 was used for the low level water MS/MSD for all fractions. Sample EBHW5 was used as the medium level soil MS/MSD in the semivolatile fraction and EBHW6 was used for the low level MS/MSD.

VOA: All spike recoveries and RPDs for EBHW8 were within the QC limits; therefore, the results are acceptable. In EBHW5MSD the RPD for 1,1-Dichloroethene was outside acceptable limits; therefore, in the unspiked samples that compound is flagged "J" for positive and "UJ" for non-detect results.

SVOA: All spike recoveries and RPDs were within the QC limits, with the exception as noted below; therefore, the results are acceptable.

For sample EBHW8MS the recovery of 4-Nitrophenol (99%) and 2,4-Dinitrotoluene (101%) was above the acceptable limits, but since both are about 100% no further action needs be taken.

For sample EBHW8MSD the recovery of 4-Nitrophenol (92%) was above the acceptable limits and N-Nitroso-di-n-propylamine (16%) was below the acceptable limits. Since the recovery of 4-Nitrophenol was less than 100% no further action need to be taken. The N-Nitroso-di-n-propylamine in the unspiked sample EBHW8 is flagged estimated "J" for detects and "UJ" for non-detects. The RPD for 4-Chloro-3-methylphenol (92%) and N-Nitroso-di-n-propylamine (132%) was outside the acceptable limits. Therefore, in the unspiked sample EBHW8, the results for the above mention compounds is qualified estimated "J" for positive and "UJ" for non-detect results.

For sample EBHW5MS the recovery for Pentachlorophenol (125%) was outside the acceptable range.

For sample EBHW5MSD the recovery for Pentachlorophenol (120%) was outside the acceptable limits. Therefore in the uspiked EBHW5 the results for Pentachlorophenol are qualified estimated "J" for positive and "UJ" for non-detect results.

For sample EBHW6MS the recovery of Pentachlorophenol (8%) was below the acceptable limits.

For sample EBHW6MSD the recovery of pentachlorophenol (10%) was below the acceptable limits. Therefore in the uspiked EBHW6 the results for Pentachlorophenol are

qualified estimated "J" for positive and "UJ" for non-detect results.

PEST: All spike recoveries and RPDs were within the QC limits with the exception noted below; therefore, the results are acceptable.

In sample EBHW5MS the recoveries for gamma-BHC (27%), Heptachlor (23%), Dieldrin (-55%) and Endrin (21%) were below the acceptable limits.

In sample EBHW5MSD the recoveries for gamma-BHC (26%), Heptachlor (34%), Dieldrin (-27%), 4,4'-DDT (12%) and Endrin (21%) were below the acceptable limits.

The RPDs for Heptachlor, Aldrin, Dieldrin, and 4,4'-DDT were outside the acceptable limits.

The unspiked sample EBHW5 all results for gamma-BHC, Heptachlor, Dieldrin, 4,4'-DDT and Endrin are flagged as estimated "J" for positive and "UJ" for non-detect results.

7. FIELD BLANK AND FIELD DUPLICATE

Sample EBHX2 was the trip blank and contained one Tentative Indentified Compound at 22 ug/L. Sample EBHT7 was not identified as a trip or field blank but was only analyzed for VOAs.

8. INTERNAL STANDARDS

VOA: The internal standards' retention times and area counts for the VOA fraction were within the required QC limits with the exception of:
IS(1) 1,4-Diflouorobenzene in samples EBHT6, EBHT4, and EBHT6RE the area counts were below the QC limit. Therefore for any analyte quantified using this internal standard in those samples, detects are flagged "J" and non-detects "UJ".
IS(2) Chlorobenzene$_{d8}$ in samples EBHT6, EBHT4, EBHT6RE and EBHW5 area counts were below the QC limit. Therefore for any analyte quantified using this internal standard those samples, detects are flagged "J" and non-detects "UJ".
IS(3) 1,4-Dichlorobenzene$_{d4}$ samples EBHT6, EBHW5MS, EBHW5MSD, EBHT4, EBHT6RE, EBHW5 and EBHT4RE the area counts were below the QC limit. Therefore for any analyte quantified using this internal standard those samples detects are flagged "J" and non-detects "UJ". With the listed qualifiers the results are therefore acceptable.
See table 4 for a list of the compounds associated with each internal standard.

SVOA: The internal standards retention times and area counts for the SVOA fraction were within the required QC limits, with the following exceptions:
IS(1) 1,4-Dichlorobenzene$_{d4}$ is outside the acceptable below the QC limit sample EBHT3, therefore for any analyte quantified using this internal standard in this sample, detects are flagged

"J" and non-detects "UJ".
IS(2) Naphthalene$_{d8}$ is outside the acceptable range low sample EBHT3, therefore for any analyte quantified using this internal standard this sample detects are flagged "J" and non-detects "UJ".
IS(5) Chrysene$_{d12}$ is outside the acceptable below the QC limit sample EBHT3, therefore for any analyte quantified using this internal standard those samples detects are flagged "J" and non-detects "UJ".
IS(6) Perylene$_{d12}$ is outside the acceptable below the QC limit samples EBHT3RE, EBHW6 and EBHW6MSD. Therefore for any analyte quantified using this internal standard those samples detects are flagged "J" and non-detects "UJ".
The area counts for all the internal standards sample EBHW6RE were outside the acceptable below the QC limit, therefore all results for this sample are qualified as estimated "J" for detects and "UJ" for non-detects. With the listed qualifiers the results are therefore acceptable.
See table 4 for a list of the compounds associated with each internal standard.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All CRQLs were properly adjusted for percent moisture and dilutions, with the exception of SVOA samples EBHT3 and EBHT3RE which are listed as 5100 ug/Kg but should be 5200 ug/Kg. All target compounds were properly reported.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was unacceptable.

12. ADDITIONAL INFORMATION

The reviewer could find no evidence for the need for EBHT4 to be run as a medium level with a 5-fold dilution.

For the volatile results the end user should use the results from sample EBHT4RE for IS(1) and IS(2).

For the semivolatile results the end user should use the results from: 1) Sample EBHW6 for all internal standards; 2) Sample EBHT3 for IS(6); 3) Sample EBHT3RE for IS(1), IS(2), and IS(5).

For the pesticide/PCB results the end user should use the results for AR1242 from EBHW5DL.

evaluated for target compound lists and outliers are reported on the forms included as part of this narrative. The reviewer needed to correct FORM IV VOA for the ICAL on 8/26/96 for a heated purge.

4. BLANKS

VOA VBLKCX, VBLKGA and VBLKGL are the low level water volatile method blanks. VBLKGG, VBLKCB, VBLKGJ, and VBLKGK, are the low level soil volatile method blanks. The table summarizes the target list compounds found in the method blanks.

BLANK	Methylene Chloride	Acetone	2-Butanone	TICs
VBLKCX	9			0
VBLKGA	7	14		0
VBLKGL	7	12		0
VBLKGK	6	7	3	0
VBLKGJ	17	7		0
VBLKCB	4	8		0
VBLKGG	6	9	3	0

Acetone is a common laboratory contaminant and it's presence in any of the samples associated with VBLKGA, VBLKGL, VBLKGK, VBLKGJ, VBLKCB and VBLKGG is flagged as undetected (U), when the sample result is less than ten (10) times the blank result. Methylene Chloride is a common laboratory contaminant and it's presence in any of the samples associated with VBLKCX, VBLKGA, VBLKGL, VBLKGK, VBLKGJ, VBLKCB and VBLKGG is flagged as undetected (U), when the sample result is less than ten (10) times the blank result. 2-Butanone is a common laboratory contaminant and its presence in any of the samples associated with VBLKGK and VBLKGG is flagged as undetected (U), when the sample result is less than ten (10) times the blank result.
The Volatile method blank summary (FORM IV VOA) lists the samples associated with each method blank.

SVOA SBLKJV was the low level water semivolatile method blank. SBLKIM, and SBLKAJ are the low level soil semivolatile method blanks. SBLKAI is the medium level soil

method blank. SBLKAI contained Di-n-Octyl Phthalate at 8200 ug/Kg and 11 Tentatively Identified Compounds (TICs). Di-n-Octyl Phthalate is a common laboratory contaminant and it's presence in any of the samples associated with SBLKAI is flagged as undetected (U), when the sample result is less than ten (10) times the blank result. The presence of any of the TICS in the samples associated with SBLKAI is flagged as undetected (U), when the sample result is less than five (5) times the blank result. Blank SBLKIM contained no TCLs and 3 TICs. The presence of any of the TICS in the samples associated with SBLKIM is flagged as undetected (U), when the sample result is less than five (5) times the blank result. Blank SBLKAJ contained no TCLs and five TICs. The presence of any of the TICS in the samples associated with SBLKAJ is flagged as undetected (U), when the sample result is less than five (5) times the blank result. Blank SBLKJV contained no target compounds or TICs; therefore, the results are acceptable.
The semivolatile method blank summary (FORM IV SVOA) lists the samples associated with each method blank.

PEST/PCB PBLK01 is the low level pesticide water method blank. PBLK02 is the low level pesticide soil method blank. PBLK01 and PBLK02 contained no target compounds; therefore, the results are acceptable.
The pesticide method blank summary (FORM IV PEST) lists the samples associated with each method blank.
There are ten (10) Pesticide instrument method blanks, none of which contained any target compounds. No samples were associated with the instrument blanks.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

VOA: The surrogates were within acceptable limits for the water samples; therefore the results are acceptable. The recovery of Bromofluorobenzene was below the acceptable limits in the soil sample EBHW5; therefore positive results are estimated "J"; non-detects qualified "UJ".

SVOA: The semivolatile surrogates were within the QC limits for all samples; therefore, the results are acceptable. The lab improperly used the "D" flag on FORM II SV-1 for soils

Pesticide\PCB: The pesticide surrogates were within the QC limits for all samples with the exceptions as noted below; therefore, the results are acceptable. The lab improperly used the "D" flag for sample EBHW5DL. The recovery of Tetrachloro-m-xylene on the DB608 column was below acceptable limits for samples EBHT3, and EBTH5. The recovery of Tetrachloro-m-xylene on the DB1701 column was below acceptable limits for samples EBHT3. The recovery of Decachlorobiphenyl on the DB608 column was below acceptable limits for samples EBHT3,

EBHW5 and EBHT5MS. The recovery of Decachlorobiphenyl on the DB1701 column was below acceptable limits for samples EBHT3, EBHT5 and EBHT5MS. Therefore, for the above noted samples, positive results are estimated "J"; non-detects are estimated "UJ".

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample EBHW5 was used as the soil low level MS/MSD for all fractions, except in the semivolatile. Sample EBHW8 was used for the low level water MS/MSD for all fractions. Sample EBHW5 was used as the medium level soil MS/MSD in the semivolatile fraction and EBHW6 was used for the low level MS/MSD.

VOA: All spike recoveries and RPDs for EBHW8 were within the QC limits; therefore, the results are acceptable. In EBHW5MSD the RPD for 1,1-Dichloroethene was outside acceptable limits; therefore, in the unspiked samples that compound is flagged "J" for positive and "UJ" for non-detect results.

SVOA: All spike recoveries and RPDs were within the QC limits, with the exception as noted below; therefore, the results are acceptable.

For sample EBHW8MS the recovery of 4-Nitrophenol (99%) and 2,4-Dinitrotoluene (101%) was above the acceptable limits, but since both are about 100% no further action needs be taken.

For sample EBHW8MSD the recovery of 4-Nitrophenol (92%) was above the acceptable limits and N-Nitroso-di-n-propylamine (16%) was below the acceptable limits. Since the recovery of 4-Nitrophenol was less than 100% no further action need to be taken. The N-Nitroso-di-n-propylamine in the unspiked sample EBHW8 is flagged estimated "J" for detects and "UJ" for non-detects. The RPD for 4-Chloro-3-methylphenol (92%) and N-Nitroso-di-n-propylamine (132%) was outside the acceptable limits. Therefore, in the unspiked sample EBHW8, the results for the above mention compounds is qualified estimated "J" for positive and "UJ" for non-detect results.

For sample EBHW5MS the recovery for Pentachlorophenol (125%) was outside the acceptable range.

For sample EBHW5MSD the recovery for Pentachlorophenol (120%) was outside the acceptable limits. Therefore in the uspiked EBHW5 the results for Pentachlorophenol are qualified estimated "J" for positive and "UJ" for non-detect results.

For sample EBHW6MS the recovery of Pentachlorophenol (8%) was below the acceptable limits.

For sample EBHW6MSD the recovery of pentachlorophenol (10%) was below the acceptable limits. Therefore in the uspiked EBHW6 the results for Pentachlorophenol are

"J" and non-detects "UJ".
IS(2) Naphthalene$_{d8}$ is outside the acceptable range low sample EBHT3, therefore for any analyte quantified using this internal standard this sample detects are flagged "J" and non-detects "UJ".
IS(5) Chrysene$_{d12}$ is outside the acceptable below the QC limit sample EBHT3, therefore for any analyte quantified using this internal standard those samples detects are flagged "J" and non-detects "UJ".
IS(6) Perylene$_{d12}$ is outside the acceptable below the QC limit samples EBHT3RE, EBHW6 and EBHW6MSD. Therefore for any analyte quantified using this internal standard those samples detects are flagged "J" and non-detects "UJ".
The area counts for all the internal standards sample EBHW6RE were outside the acceptable below the QC limit, therefore all results for this sample are qualified as estimated "J" for detects and "UJ" for non-detects. With the listed qualifiers the results are therefore acceptable.
See table 4 for a list of the compounds associated with each internal standard.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All CRQLs were properly adjusted for percent moisture and dilutions, with the exception of SVOA samples EBHT3 and EBHT3RE which are listed as 5100 ug/Kg but should be 5200 ug/Kg. All target compounds were properly reported.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was unacceptable.

12. ADDITIONAL INFORMATION

The reviewer could find no evidence for the need for EBHT4 to be run as a medium level with a 5-fold dilution.

For the volatile results the end user should use the results from sample EBHT4RE for IS(1) and IS(2).

For the semivolatile results the end user should use the results from: 1) Sample EBHW6 for all internal standards; 2) Sample EBHT3 for IS(6); 3) Sample EBHT3RE for IS(1), IS(2), and IS(5).

For the pesticide/PCB results the end user should use the results for AR1242 from EBHW5DL.

CALIBRATION OUTLIER
Volatile TCL
(Page 1 of 1)

CASE/SAS #: 24944
COLUMN: DB624
HEAD PURGE (Y/N): Y

LABORATORY: CETMEC Corp
SITE NAME: Celotex Dump (TSL)

Instrument ID:		MS7														
Date:		Initial Cal. 8/26/96			Cont. Cal. 8/27/96			Cont. Cal. 8/28/96			Cont. Cal. 8/30/96			Cont. Cal.		
Time:		1934			0630			0858			0922					
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane	0.010															
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010	0.546	54.7													
Methylene Chloride	0.010	1.373			1.719	25.2										
Acetone	0.010															
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200	0.312						0.393	26.0							
1,1,2,2-Tetrachloroethane	0.300															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene (total)	0.300															
Toluene-d_8	0.010															
Bromofluorobenzene	0.200															
1,2-Dichloroethane-d_4	0.010															

Affected Samples:

VSTD050GC	VBLKGG	VBLKGJ	VBLKGK	
VSTD100G7	EBHW5MS	EBHT6RE	EBHT3	
VSTD200G7	EBHW5MSD	EBHW5	EBHT5	
VSTD020G7		EBHW6	EBHT4RE	
VSTD010G7		EBHT4		

* Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated, "J" and non-detected results are unusable

Reviewer's Init/Date: J 9/30/96

CALIBRATION OUTLIER
Volatile TCL
(Page 1 of 1)

CASE/SAS #: 24944
COLUMN: HP-624
HEAD PURGE (Y/N): Y

LABORATORY: CEIMIC Corp
SITE NAME: CECOTEX Corp Dump (IL)

Instrument ID: MS3		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date: 3/28/96		3/28/96			6/27/97											
Time: 1006		1899			0913											
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane	0.010															
Bromomethane	0.100	0.565			0.711	25.8										
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010	0.558			.337	-42.5										
Carbon Disulfide	0.010	2.742			2.061	-25.9										
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010	1.092			0.797	-27.0										
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010	0.544			0.383	-29.6										
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.300															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene (total)	0.300															
Toluene-d_8	0.010															
Bromofluorobenzene	0.200															
1,2-Dichloroethane-d_4	0.010															

Affected Samples:

VSTD050C9	VBLKCB			
VSTD020C9	EBHT6			
VSTD010C9	EBHT7			
VSTD100C9				
VSTD200C9				

* Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated, "J" and non-detected results are unusable

Reviewer's Init/Date: JS 10/31/96

CALIBRATION OUTLIER
Volatile TCL
(Page 1 of 1)

CASE/SAS #: 24944
COLUMN: DB624
HE[illegible] PURGE (Y/N) N

LABORATORY: CEIMIC CORP
SITE NAME: Celotex Corp Dump (TL)

Instrument ID: MS7		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date:		5/30/96			6/27/96			6/31/96								
Time:		1608			1650			1100								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane	0.010															
Bromomethane	0.100	0.273			0.201	-26.4		0.203	-25.6							
Vinyl Chloride	0.100															
Chloroethane	0.010	0.987	43.8													
Methylene Chloride	0.010	2.024						1.454	-24.2							
Acetone	0.010															
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,[illegible] Dichloroethene (total)	0.010															
Ch[illegible]oform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010	.311			.396	27.3										
ci[illegible]3-Dichloropropene	0.200															
Tri[illegible]loroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2[illegible]anone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.300															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene (total)	0.300															
Toluene-d_8	0.010															
Bromofluorobenzene	0.200															
1,2-Dichloroethane-d_4	0.010															

ffected Samples:

USTD050G2	UBLKGA	UBLKGL		
USTD020G2	EBHW5MS	UHBLK01		
USTD010G2	EBHW5MSD			
USTD100G2				
USTD200G2				

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated, "J" and non-detected results are unusable

Reviewer's Init/Date: [illegible] 10/31/96

CALIBRATION OUTLIER
Volatile TCL
(Page 1 of 1)

CASE/SAS #: 24944
COLUMN: HP-624
HEATED PURGE (Y/N): N

LABORATORY: CHEMIC CORP
SITE NAME: Celotex Corp Dump (TN)

Instrument ID:		MS3														
Date:		Initial Cal. 7/22/96			Cont. Cal. 8/24/96			Cont. Cal. 8/27/96			Cont. Cal.			Cont. Cal.		
Time:		1445			1034			0439								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane	0.010															
Bromomethane	0.100	0.464			0.635	-26.5										
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010															
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100	0.605			0.354	-29.1										
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.300															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene (total)	0.300															
Toluene-d_8	0.010															
Bromofluorobenzene	0.200															
1,2-Dichloroethane-d_4	0.010															

Affected Samples:

VST0050C2	VBLKC4	VBLKC8		
VST0020C2	EBIHX1	EBIHT6		
VST0010C2	EBIHW4	EBIT7		
VST0100C2	EBIHY2			
VST0200C2				

1 Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated, "J" and non-detected results are unusable

Reviewer's Init/Date: JB 10/31/96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 1 of 2)

CASE/SAS #: 24944
COLUMN:

LABORATORY: CHEMIC CORP
SITE NAME: Celotex Corp Pump

Instrument ID:		MS1														
Date:		Initial Cal. 8/7/96			Cont. Cal. 9/19/96			Cont. Cal. 9/22/96			Cont. Cal.			Cont. Cal.		
Time:		1245			1346			1642								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2-oxybis(1-Chloropropane)	0.010															
4-[illegible]ylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bi[illegible]Chloroethoxy)methane	0.300															
2,4-[illegible]chlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010	0.252			0.339	34.5	J									
Hexachlorobutadiene	0.010	0.152			0.193	27.0	J									
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
He[illegible]lorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	0.900															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010	0.245						0.277	24.8	J						
Acenaphthene	0.900															
2,4-Dinitrophenol	0.010	0.102			0.065	36.3	J									

Affected Samples:

SSTD050AJ	SBLKAI	EBHW5MS		
SSTD020AG	SBLKAJ	EBHW5MSD		
SSTD080AG	EBHW6MS	EBHW5		
SSTD160AG	EBHW6MSD			
SSTD120AG	EBHT6			
	EBHT4			

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: JS 10/21/96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 2 of 2)

CASE/SAS #: 2494
COLUMN:

LABORATORY: CETEMIC CORP
SITE NAME: Celotex Corp Dump

Instrument ID:		MS1														
Date:		Initial Cal. 4/7/96			Cont. Cal. 4/19/96			Cont. Cal. 4/20/96			Cont. Cal.			Cont. Cal.		
Time:		245			346			642								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
4-Nitrophenol	0.010	0.100			0.074	-26.0	J									
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010	0.143			0.125	-31.7	J	0.244	33.3	J						
[illegible]-Dinitro-2-methylphenol	0.010	0.115						0.153	33.0	J						
N-nitrosodiphenylamine	0.010															
4-Bromophenyl-phenylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050	0.099			0.069	-30.3	J									
Phenanthrene	0.700															
Anthracene	0.700															
[illegible]azole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600	1.404						1.199	-33.5	J						
Butylbenzylphthalate	0.010	0.414			0.546	-33.2	J	0.509	-32.8	J						
3-3'-Dichlorobenzidine	0.010	0.140	64.6	J	0.250	78.6	J	0.208	44.6	J						
Benzo(a)anthracene	0.800															
Chrysene	0.700															
[illegible](2-Ethylhexyl)phthalate	0.010	1.113						0.798	-28.3	J						
Di-n-octylphthalate	0.010	2.243			1.424	-36.5	J									
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d_5	0.200															
2-Flurobiphenyl	0.700															
Terphenyl-d_{14}	0.500															
Phenol-d_5	0.800															
2-Fluorophenol	0.600															
2,4,6-Tribromophenol	0.010															
2-Chlorophenol-d_4	0.800															
[illegible]Dichlorobenzene-d_4	0.400															

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: DJS 10/31/96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 1 of 2)

CASE/SAS #: 24944
COLUMN:

LABORATORY: CEIMIC CORP
SITE NAME: Celotex Corp Avon (IL)

Instrument ID: MS 9		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date:		7/12/96			9/05/96			9/21/96			9/22/96			9/23/96		
Time:		0855			1319			1958			1204			1648		
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700	1.273						1.712	34.5	J	1.758	38.1	J	1.746	37.2	J
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2-oxybis(1-Chloropropane)	0.010	3.761						3.012	-40.1	J	1.467	-44.4	J	1.790	-46.7	J
4-[illegible]ylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bi[illegible]-Chloroethoxy)methane	0.300															
2,[illegible]chlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010															
Hexachlorobutadiene	0.010	0.147			0.138	26.8	J							0.158	-24.7	J
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
H[illegible]hlorocyclopentadiene	0.010	0.147			0.139	-28.8	J									
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	0.900															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.900															
2,4-Dinitrophenol	0.010	0.126						0.242	92.1	J				0.236	87.3	J

Affected Samples:

SSTD050IC	SBLKIM	EBHT3	EBHT3RE	EBHW6RE
SSTD080IC			EBHT5	
SSTD080IC			EBHW6	
SSTD120IC				
SSTD160IC				

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: J/RS 10/31/96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 2 of 2)

CASE/SAS #: 24144
COLUMN:

LABORATORY: CERMIC Corp
SITE NAME: Celotex Corp Dump

Instrument ID: MS 9		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date:		7/12/96			9/5/96			9/21/96			9/22/96			9/22/96		
Time:		0455			1319			1455			1204			1648		
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
4-Nitrophenol	0.010	0.150			0.111	-26.0	J	0.210	40.0	J				0.248	65.3	J
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900	0.926						1.196	29.2	J	1.174	26.8	J	1.207	30.4	J
4-Nitroaniline	0.010													0.426	33.1	J
[illegible]-Dinitro-2-methylphenol	0.010	0.146						0.190	30.1	J						
N-nitrosodiphenylamine	0.010															
4-Bromophenyl-phenylether	0.100															
Hexachlorobenzene	0.100	0.375			0.257	-33.1	J	.266	-29.1	J	0.260	-30.7	J	0.245	-34.7	J
Pentachlorophenol	0.050	0.142			0.102	-36.2	J									
Phenanthrene	0.700															
Anthracene	0.700															
[illegible]azole	0.010															
[illegible]-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600	1.036			1.340	29.5	J	1.344	30.1	J	1.359	31.2	J			
Butylbenzylphthalate	0.010	0.607			0.795	31	J									
3-3'-Dichlorobenzidine	0.010	0.297			0.165	-44.4	J	0.407	37.0	J				0.418	40.7	J
Benzo(a)anthracene	0.800															
Chrysene	0.700															
[illegible]2-Ethylhexyl)phthalate	0.010	0.737			1.157	57.3	J	0.952	29.2	J	1.054	43.0	J	1.082	46.3	J
Di-n-octylphthalate	0.010	1.213			2.198	81.2	J	1.409	49.1	J	1.638	35.0	J	1.932	59.3	J
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500	0.965			0.673	-30.0	J									
Nitrobenzene-d_5	0.200															
2-Flurobiphenyl	0.700															
Terphenyl-d_{14}	0.500															
Phenol-d_5	0.800															
2-Fluorophenol	0.600															
2,4,6-Tribromophenol	0.010	0.234			0.142	-39.3	J	0.147	-37.2	J	0.124	-45.3	J	0.128	-45.3	J
2-Chlorophenol-d_4	0.800															
[illegible]Dichlorobenzene-d_4	0.400															

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: DAS 10/31/96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 1 of 2)

CASE/SAS #: 24 944
COLUMN:

LABORATORY: CRIMIL Corp
SITE NAME: Celotex Corp Duval Cty

Instrument ID: MS16		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date:		3/15/96			9/20/96			9/21/96								
Time:		1154			1016			1136								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2-oxybis(1-Chloropropane)	0.010	1.993			1.394	-29.8	J	1.462	-26	J						
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010															
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	0.900															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.900															
2,4-Dinitrophenol	0.010															

Affected Samples:

	SBLKJV	EBHW8MS		
	EBHY1	EBHW8MSD		
	EBHW8			

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: DAS 10/21/96

CALIBRATION OUTLIER
Semivolatile TCL
(Page 2 of 2)

CASE/SAS #: 24944
COLUMN:

LABORATORY: CEIMIC
SITE NAME: Celotex Corp Dump (CEL)

Instrument ID:		Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date:	M510	3/15/96			9/20/96			9/21/96								
Time:		1154			1016			1136								
	#	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010				0.419	266	J									
[illegible]-Dinitro-2-methylphenol	0.010															
N-nitrosodiphenylamine	0.010															
4-Bromophenyl-phenylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
[illegible]azole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3-3'-Dichlorobenzidine	0.010															
Benzo(a)anthracene	0.800															
Chrysene	0.700															
[illegible]2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d_5	0.200															
2-Flurobiphenyl	0.700															
Terphenyl-d_{14}	0.500															
Phenol-d_5	0.800															
2-Fluorophenol	0.600															
2,4,6-Tribromophenol	0.010															
2-[illegible]hlorophenol-d_4	0.800															
[illegible] Dichlorobenzene-d_4	0.400															

Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: DJS 10/31/96

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

C. ISAS #: 24944
COLUMN: DB 608

LABORATORY: CEIMIC Corp
SITE NAME: Colatex Corp Dump

Instrument Number	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date ADU-1	6/17/96		9/19/96		9/20/96		9/23/96		9/24/96	
Time			0011		2124		1956		0319	
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Heptachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016				-						
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

	PBLK01	EBHT6	EBHW5DL	EBHT3
	PBLK02	EBHW5		EBHW6
	EBHX1	EBHW5MS		EBHT5
	EBHW8	EBHW5MSD		EBHT4
	EBHW8MS			
	EBHW8MSD			

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: PKS 10/31/96

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

L ...USAS #: 24944
COLUMN: DB 1705

LABORATORY: CIBA TC Corp
SITE NAME: Celotex Corp Burn

Instrument Number / Date	AD5-1		Initial Cal. 8/17/96		Cont. Cal. 9/19/96		Cont. Cal. 9/20/96		Cont. Cal. 9/21/96		Cont. Cal. 9/24/96	
Time					0011		2128		0715		0353	
			%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC												
beta-BHC												
delta-BHC												
gamma-BHC												
Heptachlor												
Aldrin												
Heptachlor Epoxide												
Endosulfan I												
Dieldrin												
4,4'-DDE												
Endrin												
Endosulfan II												
4,4'-DDD												
Endosulfan Sulfate												
4,4'-DDT												
Methoxychlor												
Endrin Ketone												
Endrin Aldehyde												
alpha-Chlordane												
gamma-Chlordane												
Aroicor 1016												
Aroclor 1221												
Aroclor 1232												
Aroicor 1242												
Aroclor 1248												
Aroclor 1254												
Aroclor 1260												

Affected Samples:

	PBLK01	EBHT6	EBHW50L	EBHT3
	PBLK02	EBHW5		EBHW6
	EBHX1	EBHW5MS		EBHT5
	EBHW8	EBHW5MSD		EBHT4
	EBHW8MS			
	EBHW8MSD			

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: DJS 10/31/96

TABLE 4

(Multi-Media, Multi-concentration and Low Concentration Water)

VOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Difluorobenzene	Chlorobenzene-d_5	1,4-Dichlorobenzene-d_4
Chloromethane	Toluene	Bromoform
Bromomethane	1,1,1-Trichloroethane	1,2-Dibromo-3-chloropropane*
Vinyl chloride	Carbon tetrachloride	1,2-Dichlorobenzene*
Chloroethane	Bromodichloromethane	1,3-Dichlorobenzene*
Methylene chloride	1,2-Dichloropropane	1,4-Dichlorobenzene*
Acetone	trans-1,3-Dichloropropene	
Carbon disulfide	Trichloroethene	
1,1-Dichloroethene	Dibromochloromethane	
1,1-Dichloroethane	1,1,2-Trichloroethane	
2-Butanone	Benzene	
Chloroform	cis-1,3-Dichloropropene	
1,2-Dichloroethane	Chlorobenzene	
4-Bromofluorobenzene(surr)	Ethylbenzene	
2-Butanone	Styrene	
Bromomethane*	Xylenes(total)	
cis-1,2-Dichloroethene**	4-Methyl-2-pentanone	
trans-1,2-Dichloroethene**	2-Hexanone	
	Tetrachloroethane	
	1,1,2,2-Tetrachloroethane	
	1,2-Dibromoethane*	

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d_4	Naphthalene-d_8	Acenaphthene-d_{10}	Phenanthrene-d_{10}	Chrysene-d_{12}	Perylene-d_{12}
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene	Di-n-octyl phthalate
bis(2-chloroethyl)ether	Isophorone	2,4,6-Trichlorophenol	N-nitroso-di-phenylamine	butylbenzyl phthalate	Benzo(b)fluoranthene
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	Carbazole	3,3'-Dichlorobenzidine	Benzo(k)fluoranthene
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl phenyl ether	Benzo(a)anthracene	Benzo(a)pyrene
1,4-Dichlorobenzene	Naphthalene	2-Nitroaniline	Hexachlorobenzene	bis(2-Ethylhexyl)phthalate	Indeno(1,2,3-cd)pyrene
2,2'-Oxybis-(1-chloropropane)	bis(2-Chloroethoxy)methane	Dimethylphthalate	Pentachlorophenol	Chrysene	Dibenzo(a,h)anthracene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl-d_{14}(surr)	Benzo(g,h,i)perylene
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene		
1,2-Dichlorobenzene-d_4(surr)	4-Chloroaniline	Acenaphthene	Di-n-butyl phthalate		
4-Methylphenol	Hexachlorobutadiene	2,4-Dinitrophenol	Fluoranthene		
N-nitroso-di-n-propylamine	4-Chloro-3-methylphenol	4-Nitrophenol			
Hexachloroethane	2-Methylnaphthalene	Dibenzofuran			
2-Fluorophenol(surr)	Nitrobenzene-d_5(surr)	2,4-Dinitrotoluene			
Phenol-d_5(surr)		2,6-Dinitrotoluene			
2-Chlorobenzene-d_4(surr)		Diethyl phthalate			
		4-Chlorophenyl phenyl ether			
		Fluorene			
		4-Nitroaniline			
		2-Fluorobiphenyl(surr)			
		2,4,6-Tribromophenol(surr)			

(Surr) - Surrogate

* Compounds not on Multi-Media, Multi-Concentration

** Compounds on Multi-Media, Multi-Conc. TCL as total 1,2-DCE

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 24944

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: IEPA
4. Date Shipped: 8/22/96
Carrier: FED EX
6. Date Received -- Received by: 8/23/96
Sampler (Name): MARK DELSMORE
Airbill Number: 758 569 6812
Laboratory Contract Number: 68-D5-0015
Unit Price:
Sampler Signature:
5. Ship To: CEIMIC CORPORATION, 10 DEAN KNAUSS DR., NARRAGANSETT, RI 02882, ATTN: MIGUEL MUZZIO
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBHW8	2	L	G	5		X			5-163471-3	G102	8/22/96/11:50	MEAR08	MD			

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: EBHW8
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48484-5

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark Delsmore	8-22-96 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
			8/23/96 9:00		

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

36980U

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No.: 24944

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: IEM
4. Date Shipped: 8/22/96
Carrier: FED EX
6. Date Received -- Received by: 8/23/96 [signature]
Sampler (Name): MORK DENSMORE
Airbill Number: 758 569 6812
Laboratory Contract Number: 68-05-0019
Unit Price: A
Sampler Signature: [signature]
5. Ship To: CEIMIC CORPORATION 10 DEAN KNAUSS DR. NARRAGANSETT, RI 02882 ATTN: MIGUEL MUZZIO
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBHW8	2	L	G	5			X		5-163477-9	G102	8/22/96/11:50	MEADOS	MD			

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC: EBHW8
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48480-1

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	8/22 / 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		[signature]	8/23/96 / 1000	T=5°C	Is custody seal intact? Y/N/none

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-18 REV.

3698

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No.: 24944

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: IEPA
4. Date Shipped: 8/22/96
Carrier: FED EX
6. Date Received — Received by: 8/23/96 Michael Kenny
Sampler (Name): MARK DENSMORE
Airbill Number: 758569 6812
Laboratory Contract Number: 68-D5-0019
Unit Price: A
Sampler Signature: [signature]
5. Ship To: CEIMIC CORPORATION, 10 DEAN KNAUSS DR., NARRAGANSETT RI, 02882, ATTN: MIGUEL MUZZIO
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only / ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBHX1	2	L	G	5		X			5-163458-59	G103	8/22/96/12:00	MEAQE1	MD			
EBHX1	2	L	G	5			X		5-163460	G103	8/22/96/12:00	MEAQE1	MD			X
EBHX1	2	L	G	1					5-163457-8	G105	8/22/96/12:00	MEAQE1	MD			
EBHW8	2	L	G	1	X				5-163465-70	G102	8/22/96/11:50	MEAQD8	MD			
EBHX2	2	L	G	1	X				5-163463-4	TB (G102)	8/22/96/12:15	—	MD			

Shipment for Case Complete? (Y/N):
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: EBHW8
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48476-7

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	8-22-96 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		Michael Kenny	8/23/96 1000	T=4°C	

DISTRIBUTION: White - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS C; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No.: 24944

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: IEPA
4. Date Shipped: 8-22-96
Carrier: FED EX
6. Date Received — Received by: 8/23/96 [signature]
Sampler (Name): MARK DENSMORE
Airbill Number: 7585696812
Laboratory Contract Number: 68-D5-0019
Unit Price: A
Sampler Signature: [signature]
5. Ship To: CEIMIC CORPORATION, 10 DEAN KNAUSS DR., NARRAGANSETT, RI 02882, ATTN: MIGUEL MUZZIO
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBHT3	5	L	G	5	X				5-163413-4	X104	8/22/96/10:35	MEAQD2	MD			
EBHT3	5	L	G	5		X	X		5-163413	X104	8/22/96/10:35	MEAQD2	MD			
EBHT6	5	L	G	5	X				5-163401-2	X101	8/22/96	MEAQC9	MD			
EBHT6	5	L	G	5		X	X		5-163403	X101	8/22/96/14:15	MEAQC9	MD			

Shipment for Case Complete? (Y/N): Y
Page: 2 of 2
Sample(s) to be Used for Laboratory QC: EBHW5
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48482-3

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	8-22-96 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	8/23/96 1000	T=5°C	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLAS Copy; Yellow - Lab Copy for Return to CLAS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

369832

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No.: 24944

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 5
Sampling Co.: IEPA
4. Date Shipped: 8-22-96
Carrier: FED EX
6. Date Received -- Received by: 8/23/96 [signature]
Sampler (Name): MARK DENSMORE
Airbill Number: 758 569 6812
Laboratory Contract Number: 68-D5-0019
Unit Price: A
Sampler Signature: [signature]
5. Ship To: CEIMIC CORPORATION, 10 DEAN KNAUSS DR., NARRAGANSETT, RI 02882
ATTN: MIGUEL MUZZIO
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp. Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EBHT7	5	L	G	5	X				5-163405-6	X107	8/22/96/13:50	MEAQD0	MD			
EBHW5	5	L	G	5	X				5-163425-6	X107	8/22/96/7:50	MEAQD5	MD			
EBHW5	5	L	G	5		X	X		5-163427	X107	8/22/96/7:50	MEAQD5	MD			
EBHW6	5	L	G	5	X				5-163429-0	X108	8/22/96/8:15	MEAQD6	MD			
EBHW6	5	L	G	5		X	X		5-163431	X108	8/22/96/8:15	MEAQD6	MD			
EBHT3	5	L	G	5	X				5-163421-2	X106	8/22/96/8:45	MEAQD4	MD			
EBHT3	5	L	G	5		X	X		5-163423	X106	8/22/96/8:45	MEAQD4	MD			
EBHT4	5	L	G	5	X				5-163417-8	X105	8/22/96/9:43	MEAQD3	MD			
EBHT4	5	L	G	5		X	X		5-163419	X105	8/22/96/9:43	MEAQD3	MD			

Shipment for Case Complete? (Y/N): Y
Page: 1 of 2
Sample(s) to be Used for Laboratory QC: EBHW5
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 48482-3

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	8-22-96 16:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	8/23/96 1000	T=4°C	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

36 831

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCX

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: V30824-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT837

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

533

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCX

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: V30824-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT837

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGA

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: V70827-B2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GH032

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/27/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	J
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

553

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGA

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: V70827-B2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GH032

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/27/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

554

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGL

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: V70831-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GH102

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/31/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	J
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

575

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGL

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: V70831-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GH102

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

576

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGK

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V70830-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	J
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

567

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGK

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V70830-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/30/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V70829-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH068

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/29/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	17	
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

560

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V70829-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH068

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/29/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCB

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V30827-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CT909

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/27/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCB

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V30827-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CT909

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/27/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGG

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V70827-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH016

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/27/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	J
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGG

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: V70827-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH016

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/27/96

GC Column: DB624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-22

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GH103

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/31/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	BJ
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-22

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: GH103

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

SDG Narrative

The enclosed data package is in response to USEPA, Case No. 24944, SDG No. EBHT3, Contract No. 68-D5-0019. Under this SDG there are 16 VOA, 14 SVOA and 13 PEST analyses for 3 aqueous and 7 soil samples which were received at Ceimic Corporation on August 23, 1996 from Region V.

This data package includes the analyses for the following samples from SDG No. EBHT3, all of which are billable:

(1) EPA ID	Ceimic ID	Analyses	VOA pH
EBHT3	960659-01	VOA, SVOA, PEST	
EBHT3RE	960659-01RE	SVOA	
EBHT4	960659-07	VOA, SVOA, PEST	
EBHT4RE	960659-07RE	VOA	
EBHT5	960659-06	VOA, SVOA, PEST	
EBHT6	960659-02	VOA, SVOA, PEST	
EBHT6RE	960659-02RE	VOA	
EBHT7	960659-03	VOA	
EBHW5 MS/MSD	960659-04 MS/MSD	VOA, SVOA, PEST	
EBHW5RE	960659-04RE	PEST	
EBHW6	960659-05	VOA, SVOA, PEST	
EBHW6RE	960659-05RE	SVOA	
EBHW8 MS/MSD	960659-09 MS/MSD	VOA, SVOA, PEST	1
EBHX1	960659-08	VOA, SVOA, PEST	1
EBHX2	960659-10	VOA	1

RECEIVED
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EPA REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Sample Receipt

Cooler Temperature upon receipt was 4, 5°C.

Ceimic received sample EBHX1 and there was no indication of the analysis on the traffic report. The sample was a field blank and should be analyzed for volatiles.

The submitted data covers the analysis of the Volatiles (VOA), Semivolatiles (SVOA) and Pesticides (PEST) fractions and their associated blanks and QA/QC. CEIMIC would like to highlight the following points pertaining to the analyses performed for this case:

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/MS Analysis

A. VOA

MS3: HP5970B GC/MS using 75 m x 0.53 mm ID, 3 μm film thickness HP-624 megabore column (Hewlett-Packard).

Supelco VOCARB 3000 Trap
10.0 cm Carbopack B/6.0 cm Carboxen 1000/1.0 cm Carboxen 1001

MS7: HP5970B GC/MS using 20 m x 0.20 mm ID, 1 μm film thickness DB-624 megabore column (Hewlett-Packard).

Supelco VOCARB 3000 Trap
10.0 cm Carbopack B/6.0 cm Carboxen 1000/1.0 cm Carboxen 1001

B. SVOA

MS1: HP5970B GC/MS using 30 m x 0.25 mm ID, 0.5 μm film thickness DB-5 fused silica capillary column (J.W. Scientific).

MS9: HP5970B GC/MS using 30 m x 0.25 mm ID, 0.5 μm film thickness DB-5 fused silica capillary column (J.W. Scientific).

MS10: HP5970B GC/MS using 30 m x 0.25 mm ID, 0.5 μm film thickness DB-5 fused silica capillary column (J.W. Scientific).

GC Analysis

C. PEST

AD4_1: HP5890II using 30 m x 0.53 mm ID, 0.83 μm film thickness DB-608 megabore column (J.W. Scientific), GC-5.

AD5_1: HP5890II using 30 m x 0.53 mm ID, 0.50 μm film thickness DB-1701 megabore column (J.W. Scientific), GC-5.

(3) Sample Information

Additional qualifier: "x"

An "x" qualifier is flagged by Formaster software whenever the data is manually edited.

The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. These data manipulations are done only to correct for computer integration error.

A. VOA Fraction

The VOA reconstructed ion chromatograms are labelled as:

IS1	Bromochloromethane	IS
IS2	1,4-Difluorobenzene	IS
IS3	Chlorobenzene-d5	IS
SS1(SMC1)	Toluene-d8	SMC
SS2(SMC2)	Bromofluorobenzene	SMC
SS3(SMC3)	1,2-Dichloroethane-d4	SMC
SS4(SMC4)	Dibromofluoromethane	SMC

IS = Internal Standard
SMC = System Monitoring Compound

The concentrations on quantitation reports for cis and trans-1,2-Dichloroethene, o-Xylene and m,p-Xylenes, were determined using their individual RF's; while concentrations for 1,2-Dichloroethene (total) and Xylene (total) were determined using the 1,2-Dichloroethene (total) and o-Xylene RF respectively.

Samples EBHT6 and EBHT4 (960659-02, -07) had low recoveries for internal standards. The observation of this low recovery in the reanalysis of these samples confirms a matrix effect.

Sample EBHW5 (960659-04) had low recoveries for internal standards and a surrogate. This sample was not re-analyzed.

B. SVOA Fraction

The SV reconstructed ion chromatograms are labelled as:

IS1	1,4-Dichlorobenzene-d4	IS
IS2	Naphthalene-d8	IS
IS3	Acenaphthene-d10	IS
IS4	Phenanthrene-d10	IS
IS5	Chrysene-d12	IS
IS6	Perylene-d12	IS
S1	Nitrobenzene-d5	SS
S2	2-Fluorobiphenyl	SS
S3	Terphenyl-d14	SS
S4	Phenol-d5	SS
S5	2-Fluorophenol	SS
S6	2,4,6-Tribromophenol	SS
S7	2-Chlorophenol-d4	SS
S8	1,2-Dichlorobenzene-d4	SS

IS = Internal Standard
SS = Surrogate Standard

Samples EBHT3 and EBHW6 (960659-01, -05) had low recoveries for internal standards. The observation of this low recovery in the reanalysis of these samples confirms a matrix effect.

Sample EBHW8MSD (960659-09MSD) had low recoveries for an internal standard.

C. PEST Fraction

No noncompliances are noted.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Neil Pothier, Laboratory Manager

September 26, 1996
Date

CEIMIC CORPORATION
VOA Tentatively Identified Alkanes

Client : *U.S. EPA, Region V*
Project: *960659 24944*
Case :

Ceimic ID	Client ID	Alkanes	Estimated Concentration ppb
960659-01	EBHT3	None detected	
960659-02	EBHT6	None detected	
960659-03	EBHT7	~~None detected~~ 9/16/96 ALIPHATIC HYDROCARBON CYCLIC ALKANE	150 ~~87~~ 95 9/16/96
960659-04	EBHW5	~~None detected~~ 9/16/96 CAS # 110543 HEXANE	9
960659-04	EBHW5	None detected	
0659-04	EBHW5 MSD	None detected	
960659-05	EBHW6	None detected	
960659-06	EBHT5	None detected	
960659-07	EBHT4	~~None detected~~ 9/16/96 CAS # 110543 HEXANE CYCLIC ~~HYDROCARBON~~ ALKANE ALIPHATIC HYDROCARBON	9 ~~47~~ 52 9/16/96 30
960659-08	EBHX1	None detected	

9/16/96 MS
9/16/96

960659-07RE EBHT4RE NONE DETECTED

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CEIMIC CORPORATION
VOA Tentatively Identified Alkanes

Client : *U.S. EPA, Region V*
Project: *960659 24944*
Case :

Ceimic ID	Client ID	Alkanes	Estimated Concentration ppb
960659-09	EBHW8	None detected	
960659-09	EBHW8 MS	None detected	
960659-09	EBHW8 MSD	None detected	
960659-10	EBHX2	None detected	
960659-22	VHBLK01	None detected	

9/14/96

CEIMIC CORPORATION
BNA Tentatively Identified Alkanes

Client : *USEPA, Region V*
Project: *960659 24944*
Case :

Ceimic ID	Client ID	Alkanes	Estimated Concentration ppb
960659-01	EBHT3	None Detected	
960659-01 RE	EBHT3 RE	None detected	
960659-02	EBHT6	aliphatic hydrocarbon ~~None Detected~~ 9/26/96 CJC	250
960659-04	EBHW5	aliphatic hydrocarbon ~~None Detected~~ 9/26/96 CJC	1900
960659-04	EBHW5 MS	~~None Detected~~ 9/26/96 CJC	
960659-04	EBHW5 MSD	None Detected	
960659-05	EBHW6	None Detected	
960659-05	EBHW6 MS	~~None Detected~~ 9/26/96 CJC	
960659-05	EBHW6 MSD	None Detected	
960659-06	EBHT5	None Detected	
960659-07	EBHT4	None Detected	

CEIMIC CORPORATION
BNA Tentatively Identified Alkanes

Client : *USEPA, Region V*
Project: *960659 24944*
Case :

Ceimic ID	Client ID	Alkanes	Estimated Concentration ppb
960659-08	EBHX1	None Detected	
960659-09	EBHW8	None Detected	
960659-09	EBHW8 MS	None Detected	
960659-09	EBHW8 MSD	None Detected	

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EBHW8	101	97	90	0	0
02	EBHX1	100	97	93	0	0
03	EBHX2	101	97	93	0	0
04	EBHW8MS	96	90	111	0	0
05	EBHW8MSD	95	91	114	0	0
06	VBLKCX	102	102	93	0	0
07	VBLKGA	97	99	100	0	0
08	VBLKGL	95	91	102	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	VHBLK01	99	94	101	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	EBHT3	102	91	107	0	0
02	EBHT4	101	84	113	0	0
03	EBHT4RE	104	85	109	0	0
04	EBHT5	108	83	106	0	0
05	EBHT6	110	92	107	0	0
06	EBHT6RE	104	83	111	0	0
07	EBHT7	104	105	105	0	0
08	EBHW5	128	54 *	104	0	1
09	EBHW6	99	91	105	0	0
10	EBHW5MS	120	72	94	0	0
11	EBHW5MSD	124	71	95	0	0
12	VBLKGG	97	95	100	0	0
13	VBLKCB	100	101	94	0	0
14	VBLKGJ	94	92	105	0	0
15	VBLKGK	98	91	104	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

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3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	49.72	99	61-145
Trichloroethene	50.00	0	47.20	94	71-120
Benzene	50.00	0	47.98	96	76-127
Toluene	50.00	0	51.55	103	76-125
Chlorobenzene	50.00	0	47.87	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	52.32	105	6	14	61-145
Trichloroethene	50.00	48.98	98	4	14	71-120
Benzene	50.00	50.07	100	4	11	76-127
Toluene	50.00	53.43	107	4	13	76-125
Chlorobenzene	50.00	49.20	98	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	74.60	0	66.60	89	59-172
Trichloroethene	74.60	0	57.80	77	62-137
Benzene	74.60	0	67.85	91	66-142
Toluene	74.60	0	86.06	115	59-139
Chlorobenzene	74.60	0	64.18	86	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	74.60	84.27	113	24 *	22	59-172
Trichloroethene	74.60	63.09	85	10	24	62-137
Benzene	74.60	70.57	95	4	21	66-142
Toluene	74.60	88.58	119	3	21	59-139
Chlorobenzene	74.60	66.55	89	3	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKCX

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: CT837 Lab Sample ID: V30824-B1

Date Analyzed: 08/24/96 Time Analyzed: 1155

GC Column: HP-624 ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: MS3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBHW8	960659-09	CT852	2057
02	EBHX1	960659-08	CT851	2022
03	EBHX2	960659-10	CT853	2132

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKGG

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: GH016 Lab Sample ID: V70827-B1

Date Analyzed: 08/27/96 Time Analyzed: 1002

GC Column: DB624 ID: 0.200(mm) Heated Purge: (Y/N) Y

Instrument ID: MS7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBHW5MS	960659-04MS	GH028	1733
02	EBHW5MSD	960659-04MSD	GH029	1806

COMMENTS: V70827-B1 CH#09
METHOD BLANK VBLKGG

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKCB

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: CT909 Lab Sample ID: V30827-B1

Date Analyzed: 08/27/96 Time Analyzed: 1003

GC Column: HP-624 ID: 0.530(mm) Heated Purge: (Y/N) Y

Instrument ID: MS3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBHT6	960659-02	CT918	1621
02	EBHT7	960659-03	CT919	1657

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKGA

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: GH032 Lab Sample ID: V70827-B2

Date Analyzed: 08/27/96 Time Analyzed: 2018

GC Column: DB624 ID: 0.200(mm) Heated Purge: (Y/N) N

Instrument ID: MS7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBHW8MS	969659-09MS	GH043	0215
02	EBHW8MSD	960659-09MSD	GH044	0245

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKGJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: GH068 Lab Sample ID: V70829-B1

Date Analyzed: 08/29/96 Time Analyzed: 1029

GC Column: DB624 ID: 0.200(mm) Heated Purge: (Y/N) Y

Instrument ID: MS7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBHT4	960659-07	GH077	1605
02	EBHT6RE	960659-02RE	GH073	1345
03	EBHW5	960659-04	GH074	1418
04	EBHW6	960659-05	GH075	1451

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKGK

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: GH092 Lab Sample ID: V70830-B1

Date Analyzed: 08/30/96 Time Analyzed: 1319

GC Column: DB624 ID: 0.200(mm) Heated Purge: (Y/N) Y

Instrument ID: MS7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBHT3	960659-01	GH093	1413
02	EBHT4RE	960659-07RE	GH095	1518
03	EBHT5	960659-06	GH094	1446

MENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKGL

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: GH102 Lab Sample ID: V70831-B1

Date Analyzed: 08/31/96 Time Analyzed: 1237

GC Column: DB624 ID: 0.200(mm) Heated Purge: (Y/N) N

Instrument ID: MS7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK01	960659-22	GH103	1404

COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT3

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH093

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 11 Date Analyzed: 08/30/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	17	BU	
67-64-1	Acetone	11	~~BJ~~ U	9/25 10/21/96
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	~~BJ~~ U	9/25 10/21/96
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	5.	J	243

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT3

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH093

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 11 Date Analyzed: 08/30/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Hydrocarbon	5.57	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT4

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH077

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 8 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	29	BU
67-64-1	Acetone	11 ~~8~~	~~BJ~~ U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	1	J
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	5	J

Q RS 10/21/96

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT4

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH077

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 8 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	3.95	9	JN
2.	Cyclic alkane	5.59	47	J
3.	Aliphatic hydrocarbon	6.41	11	J
4.	Cyclic alkane	7.14	5	J
5.	Unknown	8.05	7	J
6.	Aliphatic hydrocarbon	8.88	12	J
7.	Aliphatic hydrocarbon	11.13	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT4RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH095

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 8 Date Analyzed: 08/30/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	20	BU
67-64-1	Acetone	11 ~~B~~	~~BJ~~ U DLS 10/21/96
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT4RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH095

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 8 Date Analyzed: 08/30/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH094

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 21 Date Analyzed: 08/30/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	33	BU
67-64-1	Acetone	35	BU
75-15-0	Carbon Disulfide	22	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13 ~~10~~	BJU
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

10/24/96

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH094

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 21 Date Analyzed: 08/30/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CT918

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 15 Date Analyzed: 08/27/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	~~BJ~~ U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CT918

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 15 Date Analyzed: 08/27/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT6RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH073

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 15 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	44	B u
67-64-1	Acetone	13	B u
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

JLS 10/31/96

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT6RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH073

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 15 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT7

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CT919

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 34 Date Analyzed: 08/27/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 ~~8~~	~~BJ~~ U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	11	J

9/25 10/21/96

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT7

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CT919

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 34 Date Analyzed: 08/27/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aliphatic hydrocarbon	13.13	8	J
2.	Cyclic alkane	14.60	8	J
3.	Aliphatic hydrocarbon	16.70	18	J
4.	Cyclic alkane	17.99	14	J
5.	C3-Benzene isomer	19.52	23	J
6.	Unknown	19.75	29	J
7.	Aliphatic hydrocarbon	19.91	110	J
8.	C3-Benzene isomer	20.60	94	J
9.	Cyclic alkane	21.15	73	J
10.	C3-Benzene isomer	21.59	76	J
11.	Aliphatic hydrocarbon	22.00	14	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH074

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 33 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	92	BU
67-64-1	Acetone	62	BU
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

JAS 10/21/96

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH074

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 33 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	3.95	9	JN
2.	Unknown	17.25	9	J
3.	Unknown	17.91	12	J
4.	Unknown	18.46	10	J
5.	Hydrocarbon	18.68	15	J
6.	Unknown	19.11	9	J
7.	Unknown	19.24	10	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH075

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 12 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 B	~~BJ~~ U
67-64-1	Acetone	16	B U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	4	J
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

JLS 10/21/96

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH075

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. 12 Date Analyzed: 08/29/96

GC Column: DB-624 ID: 0.200 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW8

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT852

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	14	B u
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

DLS 10/24/96

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW8

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-09

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT852

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHX1

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT851

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	17	BU
67-64-1	Acetone	75	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

DJS 10/24/96

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHX1

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-08

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT851

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHX2

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT853

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	17	B U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

TCS 10/21/96

853

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHX2

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CT853

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: not dec. ____ Date Analyzed: 08/24/96

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.19	22	J

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EBHT4	49 D	65 D	55 D	46 D	18 D	21 D	36 D	55 D	0
02	EBHT6	58	64	75	60	38	90	53	63	0
03	EBHW5	65	70	81	59	40	71	58	60	0
04	EBHW5MS	63	68	84	55	46	75	61	60	0
05	EBHW5MSD	62	70	93	59	48	82	59	64	0
06	SBLKAI	84	82	92	81	70	86	71	77	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

597

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EBHW8	93	86	73	80	66	83	84	81	0
02	EBHX1	89	84	83	88	79	91	84	74	0
03	EBHW8MS	88	83	76	85	71	84	82	76	0
04	EBHW8MSD	74	72	67	55	39	56	61	65	0
05	SBLKJV	86	84	77	86	73	88	80	71	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

REVISED 10/14/96

TS

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	EBHT3	69 D	91 D	125 D	75 D	58 D	47 D	68 D	71 D	0
02	EBHT3RE	65 D	91 D	113 D	75 D	56 D	34 D	67 D	67 D	0
03	EBHT5	67 D	88 D	98 D	78 D	61 D	42 D	72 D	71 D	0
04	EBHW6	61 D	80 D	119 D	64 D	42 D	30 D	53 D	57 D	0
05	EBHW6RE	57 D	84 D	95 D	48 D	32 D	27 D	45 D	55 D	0
06	EBHW6MS	58 D	71 D	56 D	63 D	46 D	64 D	58 D	62 D	0
07	EBHW6MSD	52 D	61 D	66 D	58 D	41 D	57 D	54 D	49 D	0
08	SBLKIM	37	42	63	40	35	39	37	40	0
09	SBLKAJ	75	75	112	75	63	79	65	72	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

REVISED 10/14/96

TS

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0	59.23	79	12-110
2-Chlorophenol	75.00	0	59.99	80	27-123
1,4-Dichlorobenzene	50.00	0	36.07	72	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0	38.96	78	41-116
1,2,4-Trichlorobenzene	50.00	0	39.18	78	39- 98
4-Chloro-3-methylphenol	75.00	0	64.88	87	23- 97
Acenaphthene	50.00	0	44.25	88	46-118
4-Nitrophenol	75.00	0	74.36	99 *	10- 80
2,4-Dinitrotoluene	50.00	0	50.32	101 *	24- 96
Pentachlorophenol	75.00	0	70.36	94	9-103
Pyrene	50.00	0	45.97	92	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	40.30	54	38	42	12-110
2-Chlorophenol	75.00	45.71	61	27	40	27-123
1,4-Dichlorobenzene	50.00	30.92	62	15	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	7.750	16 *	132 *	38	41-116
1,2,4-Trichlorobenzene	50.00	33.31	67	15	28	39- 98
4-Chloro-3-methylphenol	75.00	23.73	32	92 *	42	23- 97
Acenaphthene	50.00	37.07	74	17	31	46-118
4-Nitrophenol	75.00	69.33	92 *	7	50	10- 80
2,4-Dinitrotoluene	50.00	47.55	95	6	38	24- 96
Pentachlorophenol	75.00	65.01	87	8	50	9-103
Pyrene	50.00	39.48	79	15	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 11 outside limits
Spike Recovery: 4 out of 22 outside limits

COMMENTS:

598

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

I Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW5 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	119000	0	69160	58	26- 90
2-Chlorophenol	119000	0	66860	56	25-102
1,4-Dichlorobenzene	79400	0	42510	54	28-104
N-Nitroso-di-n-prop.(1)	79400	0	48480	61	41-126
1,2,4-Trichlorobenzene	79400	0	53400	67	38-107
4-Chloro-3-methylphenol	119000	0	81170	68	26-103
Acenaphthene	79400	0	54520	69	31-137
4-Nitrophenol	119000	0	103900	87	11-114
2,4-Dinitrotoluene	79400	0	60940	77	28- 89
Pentachlorophenol	119000	0	148900	125 *	17-109
Pyrene	79400	0	68320	86	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	119000	66300	56	4	35	26- 90
2-Chlorophenol	119000	64860	54	4	50	25-102
1,4-Dichlorobenzene	79400	44870	57	5	27	28-104
N-Nitroso-di-n-prop.(1)	79400	52240	66	8	38	41-126
1,2,4-Trichlorobenzene	79400	54670	69	3	23	38-107
4-Chloro-3-methylphenol	119000	83540	70	3	33	26-103
Acenaphthene	79400	59190	75	8	19	31-137
4-Nitrophenol	119000	114200	96	10	50	11-114
2,4-Dinitrotoluene	79400	64480	81	5	47	28- 89
Pentachlorophenol	119000	142500	120 *	4	47	17-109
Pyrene	79400	76240	96	11	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

C MENTS:

599

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

L Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	2760	0	1560	57	26- 90
2-Chlorophenol	2760	0	1723	62	25-102
1,4-Dichlorobenzene	1840	0	965.6	52	28-104
N-Nitroso-di-n-prop.(1)	1840	0	1103	60	41-126
1,2,4-Trichlorobenzene	1840	0	1175	64	38-107
4-Chloro-3-methylphenol	2760	0	1415	51	26-103
cenaphthene	1840	0	1299	71	31-137
-Nitrophenol	2760	0	830.9	30	11-114
2,4-Dinitrotoluene	1840	0	814.0	44	28- 89
Pentachlorophenol	2760	0	225.8	8 *	17-109
Pyrene	1840	0	1199	65	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2800	1423	51	11	35	26- 90
2-Chlorophenol	2800	1563	56	10	50	25-102
1,4-Dichlorobenzene	1870	953.9	51	2	27	28-104
N-Nitroso-di-n-prop.(1)	1870	948.5	51	16	38	41-126
2,4-Trichlorobenzene	1870	1050	56	13	23	38-107
4-Chloro-3-methylphenol	2800	1359	49	4	33	26-103
Acenaphthene	1870	1230	66	7	19	31-137
4-Nitrophenol	2800	1157	41	31	50	11-114
2,4-Dinitrotoluene	1870	724.5	39	12	47	28- 89
Pentachlorophenol	2800	272.9	10 *	22	47	17-109
Pyrene	1870	1168	62	5	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

C ENTS:

600

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKIM

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: II729 Lab Sample ID: S0902-B6

Instrument ID: MS9 Date Extracted: 09/02/96

Matrix: (soil/water) SOIL Date Analyzed: 09/05/96

Level: (low/med) LOW Time Analyzed: 1420

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBHT3	960659-01	II950	09/22/96
02	EBHT3RE	960659-01RE	II961	09/22/96
03	EBHT5	960659-06	II962	09/22/96
04	EBHW6	960659-05	II963	09/22/96
05	EBHW6RE	960659-05RE	II985	09/23/96

COMMENTS:

601

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKAI

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: AM270 Lab Sample ID: S0913-B6

Instrument ID: MS1 Date Extracted: 09/13/96

Matrix: (soil/water) SOIL Date Analyzed: 09/19/96

Level: (low/med) MED Time Analyzed: 1527

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBHT4	960659-07	AM284	09/20/96
02	EBHT6	960659-02	AM280	09/19/96
03	EBHW5	960659-04	AM325	09/22/96
04	EBHW5MS	960659-04MS	AM323	09/22/96
05	EBHW5MSD	960659-04MSD	AM324	09/22/96

COMMENTS:

602

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: AM271 Lab Sample ID: S0913-B7

Instrument ID: MS1 Date Extracted: 09/13/96

Matrix: (soil/water) SOIL Date Analyzed: 09/19/96

Level: (low/med) LOW Time Analyzed: 1608

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBHW6MS	960659-05MS	AM275	09/19/96
02	EBHW6MSD	960659-05MSD	AM276	09/19/96

COMMENTS:

603

FORM IV SV

OLM03.0

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKJV

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab File ID: JJ095 Lab Sample ID: S0828-B2

Instrument ID: MS10 Date Extracted: 09/19/96

Matrix: (soil/water) WATER Date Analyzed: 09/20/96

Level: (low/med) LOW Time Analyzed: 1417

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBHW8	960659-09	JJ098	09/20/96
02	EBHX1	960659-08	JJ097	09/20/96
03	EBHW8MS	960659-09MS	JJ112	09/21/96
04	EBHW8MSD	960659-09MSD	JJ113	09/21/96

COMMENTS:

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FORM IV SV

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKJV

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: S0828-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ095

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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REVISED 10/14/96 TS

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKJV

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: S0828-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ095

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
86-74-8	Carbazole	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

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REVISED 10/14/96 TS

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLKJV

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: S0828-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ095

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/19/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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TS

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIM

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0902-B6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: II729

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/05/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

896

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIM

L. Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0902-B6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: II729

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/05/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-Methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
86-74-8	Carbazole	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKIM

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0902-B6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: II729

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/05/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	5.78	740	AJN
2. 000000	Unknown	7.63	330	J
3. 000000	Unknown	16.91	70	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAI

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0913-B6

Sample wt/vol: 1.0 (g/mL) G Lab File ID: AM270

Level: (low/med) MED Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)Ether	10000	U
95-57-8	2-Chlorophenol	10000	U
541-73-1	1,3-Dichlorobenzene	10000	U
106-46-7	1,4-Dichlorobenzene	10000	U
95-50-1	1,2-Dichlorobenzene	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-Di-n-Propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)Methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
120-82-1	1,2,4-Trichlorobenzene	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
59-50-7	4-Chloro-3-Methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethyl Phthalate	10000	U
208-96-8	Acenaphthylene	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAI

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0913-B6

Sample wt/vol: 1.0 (g/mL) G Lab File ID: AM270

Level: (low/med) MED Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
86-73-7	Fluorene	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-Methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
84-74-2	Di-n-Butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
86-74-8	Carbazole	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)Anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	10000	U
117-84-0	Di-n-Octyl Phthalate	8200	J
205-99-2	Benzo(b)Fluoranthene	10000	U
207-08-9	Benzo(k)Fluoranthene	10000	U
50-32-8	Benzo(a)Pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10000	U
53-70-3	Dibenz(a,h)Anthracene	10000	U
191-24-2	Benzo(g,h,i)Perylene	10000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKAI

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0913-B6

Sample wt/vol: 1.0 (g/mL) G Lab File ID: AM270

Level: (low/med) MED Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	5.26	41000	AJN
2. 000000	Unknown	7.07	3900	J
3. 112583	Hexane, 1,1'-oxybis-	11.65	4300	JN
4. 000000	Unknown phthalate ester	19.13	3500	J
5. 000000	Unknown phthalate ester	19.33	3600	J
6. 000000	Unknown phthalate ester	19.45	8900	J
7. 000000	Unknown phthalate ester	19.53	26000	J
8. 000000	Unknown phthalate ester	19.66	30000	J
9. 000000	Unknown phthalate ester	20.49	4300	J
10. 000000	Unknown phthalate ester	20.73	7000	J
11. 000000	Unknown phthalate ester	20.85	9000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0913-B7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AM271

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

925

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0913-B7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AM271

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-Methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
86-74-8	Carbazole	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: S0913-B7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AM271

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	5.26	1000	AJN
2. 000000	Unknown	7.08	110	J
3. 112583	Hexane, 1,1'-oxybis-	11.65	200	JN
4. 000000	Unknown	15.04	79	J
5. 000000	Unknown	20.84	150	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT4

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07

Sample wt/vol: 1.2 (g/mL) G Lab File ID: AM284

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	46000	U
111-44-4	bis(2-Chloroethyl)Ether	46000	U
95-57-8	2-Chlorophenol	46000	U
541-73-1	1,3-Dichlorobenzene	46000	U
106-46-7	1,4-Dichlorobenzene	46000	U
95-50-1	1,2-Dichlorobenzene	46000	U
95-48-7	2-Methylphenol	46000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	46000	U
106-44-5	4-Methylphenol	46000	U
621-64-7	N-Nitroso-Di-n-Propylamine	46000	U
67-72-1	Hexachloroethane	46000	U
98-95-3	Nitrobenzene	46000	U
78-59-1	Isophorone	46000	U
88-75-5	2-Nitrophenol	46000	U
105-67-9	2,4-Dimethylphenol	46000	U
111-91-1	bis(2-Chloroethoxy)Methane	46000	U
120-83-2	2,4-Dichlorophenol	46000	U
120-82-1	1,2,4-Trichlorobenzene	46000	U
91-20-3	Naphthalene	46000	U
106-47-8	4-Chloroaniline	46000	U
87-68-3	Hexachlorobutadiene	46000	U
59-50-7	4-Chloro-3-Methylphenol	46000	U
91-57-6	2-Methylnaphthalene	46000	U
77-47-4	Hexachlorocyclopentadiene	46000	U
88-06-2	2,4,6-Trichlorophenol	46000	U
95-95-4	2,4,5-Trichlorophenol	110000	U
91-58-7	2-Chloronaphthalene	46000	U
88-74-4	2-Nitroaniline	110000	U
131-11-3	Dimethyl Phthalate	46000	U
208-96-8	Acenaphthylene	46000	U
606-20-2	2,6-Dinitrotoluene	46000	U
99-09-2	3-Nitroaniline	110000	U
83-32-9	Acenaphthene	46000	U

655

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT4

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07

Sample wt/vol: 1.2 (g/mL) G Lab File ID: AM284

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	110000	U
100-02-7	4-Nitrophenol	110000	U
132-64-9	Dibenzofuran	46000	U
121-14-2	2,4-Dinitrotoluene	46000	U
84-66-2	Diethylphthalate	46000	U
7005-72-3	4-Chlorophenyl-phenylether	46000	U
86-73-7	Fluorene	46000	U
100-01-6	4-Nitroaniline	110000	U
534-52-1	4,6-Dinitro-2-Methylphenol	110000	U
86-30-6	N-Nitrosodiphenylamine (1)	46000	U
101-55-3	4-Bromophenyl-phenylether	46000	U
118-74-1	Hexachlorobenzene	46000	U
87-86-5	Pentachlorophenol	110000	U
85-01-8	Phenanthrene	46000	U
120-12-7	Anthracene	46000	U
84-74-2	Di-n-Butylphthalate	46000	U
206-44-0	Fluoranthene	46000	U
86-74-8	Carbazole	46000	U
129-00-0	Pyrene	46000	U
85-68-7	Butylbenzylphthalate	46000	U
91-94-1	3,3'-Dichlorobenzidine	46000	U
56-55-3	Benzo(a)Anthracene	46000	U
218-01-9	Chrysene	46000	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	46000	U
117-84-0	Di-n-Octyl Phthalate	46000	U
205-99-2	Benzo(b)Fluoranthene	46000	U
207-08-9	Benzo(k)Fluoranthene	46000	U
50-32-8	Benzo(a)Pyrene	46000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	46000	U
53-70-3	Dibenz(a,h)Anthracene	46000	U
191-24-2	Benzo(g,h,i)Perylene	46000	U

(1) - Cannot be separated from Diphenylamine

656

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT4

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07

Sample wt/vol: 1.2 (g/mL) G Lab File ID: AM284

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.7

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	18.33	28000	J

657

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-06

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II962

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4000	U
111-44-4	bis(2-Chloroethyl)Ether	4000	U
95-57-8	2-Chlorophenol	4000	U
541-73-1	1,3-Dichlorobenzene	4000	U
106-46-7	1,4-Dichlorobenzene	4000	U
95-50-1	1,2-Dichlorobenzene	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4000	U
106-44-5	4-Methylphenol	4000	U
621-64-7	N-Nitroso-Di-n-Propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	bis(2-Chloroethoxy)Methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
120-82-1	1,2,4-Trichlorobenzene	4000	U
91-20-3	Naphthalene	4000	U
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
59-50-7	4-Chloro-3-Methylphenol	4000	U
91-57-6	2-Methylnaphthalene	4000	U
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethyl Phthalate	4000	U
208-96-8	Acenaphthylene	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
99-09-2	3-Nitroaniline	10000	U
83-32-9	Acenaphthene	4000	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-06

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II962

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	4000	U
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
7005-72-3	4-Chlorophenyl-phenylether	4000	U
86-73-7	Fluorene	4000	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-Methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	4000	U
120-12-7	Anthracene	4000	U
84-74-2	Di-n-Butylphthalate	4000	U
206-44-0	Fluoranthene	4000	U
86-74-8	Carbazole	4000	U
129-00-0	Pyrene	4000	U
85-68-7	Butylbenzylphthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)Anthracene	4000	U
218-01-9	Chrysene	4000	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	4000	U
117-84-0	Di-n-Octyl Phthalate	4000	U
205-99-2	Benzo(b)Fluoranthene	4000	U
207-08-9	Benzo(k)Fluoranthene	4000	U
50-32-8	Benzo(a)Pyrene	4000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	4000	U
53-70-3	Dibenz(a,h)Anthracene	4000	U
191-24-2	Benzo(g,h,i)Perylene	4000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-06

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II962

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	7.24	220000	ABJN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02

Sample wt/vol: 1.1 (g/mL) G Lab File ID: AM280

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	11000	U
111-44-4	bis(2-Chloroethyl)Ether	11000	U
95-57-8	2-Chlorophenol	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
95-48-7	2-Methylphenol	11000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11000	U
106-44-5	4-Methylphenol	11000	U
621-64-7	N-Nitroso-Di-n-Propylamine	11000	U
67-72-1	Hexachloroethane	11000	U
98-95-3	Nitrobenzene	11000	U
78-59-1	Isophorone	11000	U
88-75-5	2-Nitrophenol	11000	U
105-67-9	2,4-Dimethylphenol	11000	U
111-91-1	bis(2-Chloroethoxy)Methane	11000	U
120-83-2	2,4-Dichlorophenol	11000	U
120-82-1	1,2,4-Trichlorobenzene	11000	U
91-20-3	Naphthalene	11000	U
106-47-8	4-Chloroaniline	11000	U
87-68-3	Hexachlorobutadiene	11000	U
59-50-7	4-Chloro-3-Methylphenol	11000	U
91-57-6	2-Methylnaphthalene	11000	U
77-47-4	Hexachlorocyclopentadiene	11000	U
88-06-2	2,4,6-Trichlorophenol	11000	U
95-95-4	2,4,5-Trichlorophenol	27000	U
91-58-7	2-Chloronaphthalene	11000	U
88-74-4	2-Nitroaniline	27000	U
131-11-3	Dimethyl Phthalate	11000	U
208-96-8	Acenaphthylene	11000	U
606-20-2	2,6-Dinitrotoluene	11000	U
99-09-2	3-Nitroaniline	27000	U
83-32-9	Acenaphthene	11000	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02

Sample wt/vol: 1.1 (g/mL) G Lab File ID: AM280

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	27000	U
100-02-7	4-Nitrophenol	27000	U
132-64-9	Dibenzofuran	11000	U
121-14-2	2,4-Dinitrotoluene	11000	U
84-66-2	Diethylphthalate	11000	U
7005-72-3	4-Chlorophenyl-phenylether	11000	U
86-73-7	Fluorene	11000	U
100-01-6	4-Nitroaniline	27000	U
534-52-1	4,6-Dinitro-2-Methylphenol	27000	U
86-30-6	N-Nitrosodiphenylamine (1)	11000	U
101-55-3	4-Bromophenyl-phenylether	11000	U
118-74-1	Hexachlorobenzene	11000	U
87-86-5	Pentachlorophenol	27000	U
85-01-8	Phenanthrene	11000	U
120-12-7	Anthracene	11000	U
84-74-2	Di-n-Butylphthalate	11000	U
206-44-0	Fluoranthene	11000	U
86-74-8	Carbazole	11000	U
129-00-0	Pyrene	11000	U
85-68-7	Butylbenzylphthalate	11000	U
91-94-1	3,3'-Dichlorobenzidine	11000	U
56-55-3	Benzo(a)Anthracene	11000	U
218-01-9	Chrysene	11000	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	11000	U
117-84-0	Di-n-Octyl Phthalate	11000	U
205-99-2	Benzo(b)Fluoranthene	11000	U
207-08-9	Benzo(k)Fluoranthene	11000	U
50-32-8	Benzo(a)Pyrene	11000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	11000	U
53-70-3	Dibenz(a,h)Anthracene	11000	U
191-24-2	Benzo(g,h,i)Perylene	11000	U

(1) - Cannot be separated from Diphenylamine

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02

Sample wt/vol: 1.1 (g/mL) G Lab File ID: AM280

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/19/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	5.26	48000	ABJN
2.	Unknown	7.03	9100	J
3.	Unknown	8.69	4800	J

671

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04

Sample wt/vol: 1.1 (g/mL) G Lab File ID: AM325

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	14000	U
111-44-4	bis(2-Chloroethyl)Ether	14000	U
95-57-8	2-Chlorophenol	14000	U
541-73-1	1,3-Dichlorobenzene	14000	U
106-46-7	1,4-Dichlorobenzene	14000	U
95-50-1	1,2-Dichlorobenzene	14000	U
95-48-7	2-Methylphenol	14000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	14000	U
106-44-5	4-Methylphenol	14000	U
621-64-7	N-Nitroso-Di-n-Propylamine	14000	U
67-72-1	Hexachloroethane	14000	U
98-95-3	Nitrobenzene	14000	U
78-59-1	Isophorone	14000	U
88-75-5	2-Nitrophenol	14000	U
105-67-9	2,4-Dimethylphenol	14000	U
111-91-1	bis(2-Chloroethoxy)Methane	14000	U
120-83-2	2,4-Dichlorophenol	14000	U
120-82-1	1,2,4-Trichlorobenzene	14000	U
91-20-3	Naphthalene	14000	U
106-47-8	4-Chloroaniline	14000	U
87-68-3	Hexachlorobutadiene	14000	U
59-50-7	4-Chloro-3-Methylphenol	14000	U
91-57-6	2-Methylnaphthalene	14000	U
77-47-4	Hexachlorocyclopentadiene	14000	U
88-06-2	2,4,6-Trichlorophenol	14000	U
95-95-4	2,4,5-Trichlorophenol	36000	U
91-58-7	2-Chloronaphthalene	14000	U
88-74-4	2-Nitroaniline	36000	U
131-11-3	Dimethyl Phthalate	14000	U
208-96-8	Acenaphthylene	14000	U
606-20-2	2,6-Dinitrotoluene	14000	U
99-09-2	3-Nitroaniline	36000	U
83-32-9	Acenaphthene	14000	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04

Sample wt/vol: 1.1 (g/mL) G Lab File ID: AM325

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	36000	U
100-02-7	4-Nitrophenol	36000	U
132-64-9	Dibenzofuran	14000	U
121-14-2	2,4-Dinitrotoluene	14000	U
84-66-2	Diethylphthalate	14000	U
7005-72-3	4-Chlorophenyl-phenylether	14000	U
86-73-7	Fluorene	14000	U
100-01-6	4-Nitroaniline	36000	U
534-52-1	4,6-Dinitro-2-Methylphenol	36000	U
86-30-6	N-Nitrosodiphenylamine (1)	14000	U
101-55-3	4-Bromophenyl-phenylether	14000	U
118-74-1	Hexachlorobenzene	14000	U
87-86-5	Pentachlorophenol	36000	U
85-01-8	Phenanthrene	14000	U
120-12-7	Anthracene	14000	U
84-74-2	Di-n-Butylphthalate	14000	U
206-44-0	Fluoranthene	14000	U
86-74-8	Carbazole	14000	U
129-00-0	Pyrene	14000	U
85-68-7	Butylbenzylphthalate	14000	U
91-94-1	3,3'-Dichlorobenzidine	14000	U
56-55-3	Benzo(a)Anthracene	14000	U
218-01-9	Chrysene	14000	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	5000	J
117-84-0	Di-n-Octyl Phthalate	14000	U
205-99-2	Benzo(b)Fluoranthene	14000	U
207-08-9	Benzo(k)Fluoranthene	14000	U
50-32-8	Benzo(a)Pyrene	14000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	14000	U
53-70-3	Dibenz(a,h)Anthracene	14000	U
191-24-2	Benzo(g,h,i)Perylene	14000	U

680

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04

Sample wt/vol: 1.1 (g/mL) G Lab File ID: AM325

Level: (low/med) MED Date Received: 08/23/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 09/13/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	5.15	43000	ABJN
2.	Unknown	6.95	13000	J
3. 1008527	Benzaldehyde	7.27	5400	JN
4.	Unknown	7.56	3100	J
5.	Unknown	7.94	3500	J
6.	Unknown	8.59	6500	J
7.	Unknown	11.14	3200	J
8.	Unknown	11.51	4700	J
9.	Unknown	11.62	3000	J
10.	Unknown	11.88	6200	J
11.	Unknown	11.95	4400	J
12.	Unknown aromatic	16.18	4100	J
13.	Unknown fatty acid	17.45	7900	J
14.	Unknown	18.25	10000	J
15. 57114	Octadecanoic acid	18.34	16000	JN
16.	Unknown	19.03	15000	J
17.	Unknown	19.19	43000	J
18.	Unknown	19.45	38000	J
19. 1740198	1-Phenanthrenecarboxylic aci	19.59	42000	JN
20.	Unknown	20.02	11000	J
21.	Unknown	20.74	14000	J
22.	Unknown	23.58	6500	J
23.	Unknown	25.17	12000	J
24.	Unknown	25.75	5200	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II963

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)Ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-Methylphenol	1800	U
91-57-6	2-Methylnaphthalene	1800	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4600	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4600	U
131-11-3	Dimethyl Phthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	4600	U
83-32-9	Acenaphthene	1800	U

717

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II963

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4600	U
100-02-7	4-Nitrophenol	4600	U
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	1800	U
100-01-6	4-Nitroaniline	4600	U
534-52-1	4,6-Dinitro-2-Methylphenol	4600	U
86-30-6	N-Nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	4600	U
85-01-8	Phenanthrene	1800	U
120-12-7	Anthracene	1800	U
84-74-2	Di-n-Butylphthalate	1800	U
206-44-0	Fluoranthene	1800	U
86-74-8	Carbazole	1800	U
129-00-0	Pyrene	1800	U
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)Anthracene	1800	U
218-01-9	Chrysene	1800	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	1800	U
117-84-0	Di-n-Octyl Phthalate	1800	U
205-99-2	Benzo(b)Fluoranthene	1800	U
207-08-9	Benzo(k)Fluoranthene	1800	U
50-32-8	Benzo(a)Pyrene	1800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1800	U
53-70-3	Dibenz(a,h)Anthracene	1800	U
191-24-2	Benzo(g,h,i)Perylene	1800	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II963

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	7.26	130000	ABJN

719

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW6RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II985

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/23/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)Ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-Methylphenol	1800	U
91-57-6	2-Methylnaphthalene	1800	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4600	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4600	U
131-11-3	Dimethyl Phthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	4600	U
83-32-9	Acenaphthene	1800	U

724

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW6RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II985

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/23/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4600	U
100-02-7	4-Nitrophenol	4600	U
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	1800	U
100-01-6	4-Nitroaniline	4600	U
534-52-1	4,6-Dinitro-2-Methylphenol	4600	U
86-30-6	N-Nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	4600	U
85-01-8	Phenanthrene	1800	U
120-12-7	Anthracene	1800	U
84-74-2	Di-n-Butylphthalate	1800	U
206-44-0	Fluoranthene	1800	U
86-74-8	Carbazole	1800	U
129-00-0	Pyrene	1800	U
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)Anthracene	1800	U
218-01-9	Chrysene	1800	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	1800	U
117-84-0	Di-n-Octyl Phthalate	1800	U
205-99-2	Benzo(b)Fluoranthene	1800	U
207-08-9	Benzo(k)Fluoranthene	1800	U
50-32-8	Benzo(a)Pyrene	1800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1800	U
53-70-3	Dibenz(a,h)Anthracene	1800	U
191-24-2	Benzo(g,h,i)Perylene	1800	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW6RE

1 Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II985

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/23/96

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 8.4

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	8.22	1200	ABJN

726

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW8

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ098

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 08/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

731

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW8

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ098

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 08/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
86-74-8	Carbazole	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	16	
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHW8

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ098

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 08/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 105602	Caprolactam	12.64	75	AJN
2. 134623	Diethyltoluamide	16.11	5	JN
3.	Unknown	20.11	3	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHX1

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ097

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 08/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

741

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHX1

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ097

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 08/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
86-74-8	Carbazole	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

742

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHX1

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JJ097

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 08/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/20/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT3

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II950

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5100	U
111-44-4	bis(2-Chloroethyl)Ether	5100	U
95-57-8	2-Chlorophenol	5100	U
541-73-1	1,3-Dichlorobenzene	5100	U
106-46-7	1,4-Dichlorobenzene	5100	U
95-50-1	1,2-Dichlorobenzene	5100	U
95-48-7	2-Methylphenol	5100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5100	U
106-44-5	4-Methylphenol	5100	U
621-64-7	N-Nitroso-Di-n-Propylamine	5100	U
67-72-1	Hexachloroethane	5100	U
98-95-3	Nitrobenzene	5100	U
78-59-1	Isophorone	5100	U
88-75-5	2-Nitrophenol	5100	U
105-67-9	2,4-Dimethylphenol	5100	U
111-91-1	bis(2-Chloroethoxy)Methane	5100	U
120-83-2	2,4-Dichlorophenol	5100	U
120-82-1	1,2,4-Trichlorobenzene	5100	U
91-20-3	Naphthalene	5100	U
106-47-8	4-Chloroaniline	5100	U
87-68-3	Hexachlorobutadiene	5100	U
59-50-7	4-Chloro-3-Methylphenol	5100	U
91-57-6	2-Methylnaphthalene	5100	U
77-47-4	Hexachlorocyclopentadiene	5100	U
88-06-2	2,4,6-Trichlorophenol	5100	U
95-95-4	2,4,5-Trichlorophenol	13000	U
91-58-7	2-Chloronaphthalene	5100	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethyl Phthalate	5100	U
208-96-8	Acenaphthylene	5100	U
606-20-2	2,6-Dinitrotoluene	5100	U
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	5100	U

633

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT3

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II950

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	13000	U
100-02-7	4-Nitrophenol	13000	U
132-64-9	Dibenzofuran	5100	U
121-14-2	2,4-Dinitrotoluene	5100	U
84-66-2	Diethylphthalate	5100	U
7005-72-3	4-Chlorophenyl-phenylether	5100	U
86-73-7	Fluorene	5100	U
100-01-6	4-Nitroaniline	13000	U
534-52-1	4,6-Dinitro-2-Methylphenol	13000	U
86-30-6	N-Nitrosodiphenylamine (1)	5100	U
101-55-3	4-Bromophenyl-phenylether	5100	U
118-74-1	Hexachlorobenzene	5100	U
87-86-5	Pentachlorophenol	13000	U
85-01-8	Phenanthrene	5100	U
120-12-7	Anthracene	5100	U
84-74-2	Di-n-Butylphthalate	5100	U
206-44-0	Fluoranthene	5100	U
86-74-8	Carbazole	5100	U
129-00-0	Pyrene	5100	U
85-68-7	Butylbenzylphthalate	5100	U
91-94-1	3,3'-Dichlorobenzidine	5100	U
56-55-3	Benzo(a)Anthracene	5100	U
218-01-9	Chrysene	5100	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	680	J
117-84-0	Di-n-Octyl Phthalate	5100	U
205-99-2	Benzo(b)Fluoranthene	5100	U
207-08-9	Benzo(k)Fluoranthene	5100	U
50-32-8	Benzo(a)Pyrene	5100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	5100	U
53-70-3	Dibenz(a,h)Anthracene	5100	U
191-24-2	Benzo(g,h,i)Perylene	5100	U

(1) - Cannot be separated from Diphenylamine

63A

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT3

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II950

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	8.34	7600	ABJN
2.	Unknown	20.53	1500	J
3.	Unknown	20.95	8900	J
4.	Unknown	21.65	2500	J
5.	Unknown amide	22.07	15000	J
6.	Unknown	25.20	3500	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT3RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II961

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5100	U
111-44-4	bis(2-Chloroethyl)Ether	5100	U
95-57-8	2-Chlorophenol	5100	U
541-73-1	1,3-Dichlorobenzene	5100	U
106-46-7	1,4-Dichlorobenzene	5100	U
95-50-1	1,2-Dichlorobenzene	5100	U
95-48-7	2-Methylphenol	5100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5100	U
106-44-5	4-Methylphenol	5100	U
621-64-7	N-Nitroso-Di-n-Propylamine	5100	U
67-72-1	Hexachloroethane	5100	U
98-95-3	Nitrobenzene	5100	U
78-59-1	Isophorone	5100	U
88-75-5	2-Nitrophenol	5100	U
105-67-9	2,4-Dimethylphenol	5100	U
111-91-1	bis(2-Chloroethoxy)Methane	5100	U
120-83-2	2,4-Dichlorophenol	5100	U
120-82-1	1,2,4-Trichlorobenzene	5100	U
91-20-3	Naphthalene	5100	U
106-47-8	4-Chloroaniline	5100	U
87-68-3	Hexachlorobutadiene	5100	U
59-50-7	4-Chloro-3-Methylphenol	5100	U
91-57-6	2-Methylnaphthalene	5100	U
77-47-4	Hexachlorocyclopentadiene	5100	U
88-06-2	2,4,6-Trichlorophenol	5100	U
95-95-4	2,4,5-Trichlorophenol	13000	U
91-58-7	2-Chloronaphthalene	5100	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethyl Phthalate	5100	U
208-96-8	Acenaphthylene	5100	U
606-20-2	2,6-Dinitrotoluene	5100	U
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	5100	U

645

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT3RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II961

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	13000	U
100-02-7	4-Nitrophenol	13000	U
132-64-9	Dibenzofuran	5100	U
121-14-2	2,4-Dinitrotoluene	5100	U
84-66-2	Diethylphthalate	5100	U
7005-72-3	4-Chlorophenyl-phenylether	5100	U
86-73-7	Fluorene	5100	U
100-01-6	4-Nitroaniline	13000	U
534-52-1	4,6-Dinitro-2-Methylphenol	13000	U
86-30-6	N-Nitrosodiphenylamine (1)	5100	U
101-55-3	4-Bromophenyl-phenylether	5100	U
118-74-1	Hexachlorobenzene	5100	U
87-86-5	Pentachlorophenol	13000	U
85-01-8	Phenanthrene	5100	U
120-12-7	Anthracene	5100	U
84-74-2	Di-n-Butylphthalate	5100	U
206-44-0	Fluoranthene	540	J
86-74-8	Carbazole	5100	U
129-00-0	Pyrene	5100	U
85-68-7	Butylbenzylphthalate	5100	U
91-94-1	3,3'-Dichlorobenzidine	5100	U
56-55-3	Benzo(a)Anthracene	5100	U
218-01-9	Chrysene	5100	U
117-81-7	bis-(2-Ethylhexyl)Phthalate	600	J
117-84-0	Di-n-Octyl Phthalate	5100	U
205-99-2	Benzo(b)Fluoranthene	5100	U
207-08-9	Benzo(k)Fluoranthene	5100	U
50-32-8	Benzo(a)Pyrene	5100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	5100	U
53-70-3	Dibenz(a,h)Anthracene	5100	U
191-24-2	Benzo(g,h,i)Perylene	5100	U

(1) - Cannot be separated from Diphenylamine

646

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBHT3RE

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: II961

Level: (low/med) LOW Date Received: 08/23/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 09/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/22/96

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	2-Pentanone, 4-hydroxy-4-met	8.32	7400	ABJN
2.	Unknown amide	22.00	12000	J

647

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	82	76	84	82			0
02	EBHW8	124	74	44	46			0
03	EBHX1	77	71	87	88			0
04	EBHW8MS	104	65	52	50			0
05	EBHW8MSD	100	66	48	48			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

972

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK02	53	54	64	63			0
02	EBHT3	22*	21*	22*	16*			4
03	EBHT4	51	46	33	31			0
04	EBHT5	28*	30	38	25*			2
05	EBHT6	38	42	59	56			0
06	EBHW5	42	42	29*	30			1
07	EBHW5DL	32D	40D	43D	33D			0
08	EBHW5MS	33	32	24*	25*			2
09	EBHW5MSD	34	48	31	30			0
10	EBHW6	32	37	40	30			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

973

FORM II PEST-2

OLM03.0

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	1.000	0	0.746	75	56-123
Heptachlor	1.000	0	0.666	67	40-131
Aldrin	1.000	0	0.670	67	40-120
Dieldrin	2.000	0	1.57	78	52-126
Endrin	2.000	0	1.60	80	56-121
4,4'-DDT	2.000	0	1.24	62	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	1.000	0.751	75	0	15	56-123
Heptachlor	1.000	0.668	67	0	31	40-131
Aldrin	1.000	0.675	68	1	22	40-120
Dieldrin	2.000	1.58	79	1	18	52-126
Endrin	2.000	1.54	77	4	21	56-121
4,4'-DDT	2.000	1.26	63	2	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix Spike - EPA Sample No.: EBHW5

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	26.400	0	7.24	27 *	46-127
Heptachlor	26.400	0	6.06	23 *	35-130
Aldrin	26.400	0	17.4	66	34-132
Dieldrin	52.700	69.9	41.1	-55 *	31-134
Endrin	52.700	0	11.2	21 *	42-139
4,4'-DDT	52.700	8.79	25.8	32	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	26.200	6.80	26 *	4	50	46-127
Heptachlor	26.200	8.84	34 *	39 *	31	35-130
Aldrin	26.200	10.9	42	44 *	43	34-132
Dieldrin	52.400	56.0	-27 *	-68 *	38	31-134
Endrin	52.400	10.9	21 *	0	45	42-139
4,4'-DDT	52.400	15.3	12 *	91 *	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 4 out of 6 outside limits
Spike Recovery: 9 out of 12 outside limits

COMMENTS:

975

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab Sample ID: P0828-B1 Lab File ID: _____

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 08/28/96

Date Analyzed (1): 09/20/96 Date Analyzed (2): 09/20/96

Time Analyzed (1): 1652 Time Analyzed (2): 1652

Instrument ID (1): AD4_1 Instrument ID (2): AD5_1

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBHW8	960659-09	09/20/96	09/20/96
02	EBHX1	960659-08	09/20/96	09/20/96
03	EBHW8MS	960659-09MS	09/20/96	09/20/96
04	EBHW8MSD	960659-09MSD	09/20/96	09/20/96

COMMENTS:

976

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK02

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Lab Sample ID: P0902-B4 Lab File ID: _____

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 09/02/96

Date Analyzed (1): 09/20/96 Date Analyzed (2): 09/20/96

Time Analyzed (1): 1727 Time Analyzed (2): 1727

Instrument ID (1): AD4_1 Instrument ID (2): AD5_1

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBHT3	960659-01	09/24/96	09/24/96
02	EBHT4	960659-07	09/24/96	09/24/96
03	EBHT5	960659-06	09/24/96	09/24/96
04	EBHT6	960659-02	09/21/96	09/21/96
05	EBHW5	960659-04	09/21/96	09/21/96
06	EBHW5DL	960659-04DL	09/24/96	09/24/96
07	EBHW6	960659-05	09/24/96	09/24/96
08	EBHW5MS	960659-04MS	09/21/96	09/21/96
09	EBHW5MSD	960659-04MSD	09/21/96	09/21/96

COMMENTS:

977

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT3

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 36 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/24/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	72	P
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT4

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-07

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/24/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	5.3	
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	330	P
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

985

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-06

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/24/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	27	JP
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

992

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHT6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-02

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/21/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	54	
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

998

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW5

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 37 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/21/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	70	
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.3	P
50-29-3	4,4'-DDT	8.8	P
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.3	P
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	30	
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	3400	PE
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW5DL

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-04DL

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 37 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/24/96

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	27	U
319-85-7	beta-BHC	27	U
319-86-8	delta-BHC	27	U
58-89-9	gamma-BHC (Lindane)	27	U
76-44-8	Heptachlor	27	U
309-00-2	Aldrin	27	U
1024-57-3	Heptachlor epoxide	27	U
959-98-8	Endosulfan I	27	U
60-57-1	Dieldrin	74	D
72-55-9	4,4'-DDE	52	U
72-20-8	Endrin	52	U
33213-65-9	Endosulfan II	52	U
72-54-8	4,4'-DDD	52	U
1031-07-8	Endosulfan sulfate	52	U
50-29-3	4,4'-DDT	52	U
72-43-5	Methoxychlor	270	U
53494-70-5	Endrin ketone	52	U
7421-93-4	Endrin aldehyde	52	U
5103-71-9	alpha-Chlordane	38	D
5103-74-2	gamma-Chlordane	27	U
8001-35-2	Toxaphene	2700	U
12674-11-2	Aroclor-1016	520	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	520	U
53469-21-9	Aroclor-1242	4700	D
12672-29-6	Aroclor-1248	520	U
11097-69-1	Aroclor-1254	520	U
11096-82-5	Aroclor-1260	520	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW6

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: 960659-05

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/24/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

1014

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHW8

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 08/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBHX1

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: 960659-08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 08/23/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 08/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) WATER Lab Sample ID: P0828-B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 08/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: CEIMIC CORP Contract: 68-D5-0019

Lab Code: CEIMIC Case No.: 24944 SAS No.: _____ SDG No.: EBHT3

Matrix: (soil/water) SOIL Lab Sample ID: P0902-B4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/02/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/20/96

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	66	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IL

Case No: 24944 Site Name Location: Celotex Corp Dump

Contractor or EPA Lab: Clinic Data User: IEPA

No. of Samples: 10 Date Sampled or Data Received: 9-29-96

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 10 No. of samples received: 10

Received by: Lynette Burnett Date: 9-29-96

Received by LSSS: Lynette Burnett Date: 9-29-96

Review started: 10/21/96 Reviewer Signature: [illegible]

Total time spent on review: 16 hrs Date review completed: 10/31/96

Copied by: Lynette Burnett Date: 11-29-96

Mailed to user by: Lynette Burnett Date: 11-29-96

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

SITE PRIORITY RECOMMENDATION

It is recommended that the Celotex Corporate Dump Site (ILD 981961634) be given a high priority status rating based on the findings of the August 1996, STEP Inspection.

The Site is located just east of the Kankakee River on Kankakee Street in Wilmington, Illinois. Celotex operated a solid waste disposal site on a 40 acre parcel of land located North of their Wilmington facility. This disposal area consists of two landfills, two surface depressions, and several unlined disposal lagoons. The landfills appear to be inactive, partially covered and vegetated. The lagoons contain three to four feet of clear water and lack emergent and surficial animal and plant life. This entire area is prone to flooding from the Kankakee River on the west and from the Forked Creek to the south. The perimeter of the site has three distinct wetland areas, one to the northeast, one to the west, and one to the south. The site is bordered on the northeast and east by residential areas. These residential areas provide several points of access to the site. Man made paths and trails are easily found throughout this area, showing some possible recreational uses of the site.

The human food chain segment of the surface water pathway appears to be of greatest concern due to significantly high levels of copper, 27.7 ppm in a sediment sample from the Kankakee River and 19 ppm in a wetland area. The corresponding Lowest Effects Level from the Ontario Guidelines is 16 ppm. Manganese sediment levels were also in excess of the 460 ppm Lowest Effects Level from the Ontario Guidelines.

The soil exposure pathway is also of concern due to the lack of any final cover material and accessibility with this site. Two large surface depressions are located on-site and lack any post closure care. One depression sample has copper levels three times background concentrations and PCB levels that exceed the calibration range for that specific analysis. Both surface depressions have exposed debris and are not properly covered. One on-site lagoon contains a large quantity of asphalt that had low levels of OCDD (dioxin) and OCDF (furan).

The site also has numerous physical hazards and is considered a nuisance to the community.

The air pathway could also be effected if the contaminated soils become airborne. At this time there are no air related complaints regarding this site.

Base on these facts the site is assigned a high priority and it is recommended that the site advance to the next stage of the CERCLA process.